# RFP No.: HSR 13-57 - Addendum No. 5 - 10/09/2014

### **California High-Speed Rail Authority**



RFP No.: HSR 13-57

# Request for Proposal for Design-Build Services for Construction Package 2-3

**Book IV, Part F.1 – CADD Manual** 

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### **ABSTRACT**

This document presents guidelines for the development of Computer Aided Design and Drafting (CADD) drawings for the design of the California High-Speed Train Project (CHSTP). These guidelines are intended to provide a means to maintain consistency in the presentation of contract drawings and to organize the electronic database so that it can be easily accessed across the project disciplines and geographic regions and utilized throughout the duration of the project.

The intended audience for this document is the various regional design teams and design builders preparation CADD drawings for the CHSTP. Adherence to the CADD Guidelines will produce a consistent set of drawings that are organized and contain sufficient information to clearly convey the design intent. The CADD Guidelines shall be followed by all CADD users to assure a unified set of documents is presented to the client.

The document includes guidance on the drawing standards, software platforms, file management and file types.

Guidelines for the development and maintenance of electronic files and information are also included in this document. Concurrent with the release of this guidelines document, drawing files containing the CHSTP drawing border will be made available for use by designers in preparing project drawings.



### 1.0 INTRODUCTION

### 1.1 Purpose of Guidelines document

The purpose of this guidelines document is to establish uniform policies and procedures for the Design, Drafting, and Management of electronic files and information for the California High-Speed Train Project (CHSTP) drawing delivery process.

The guidelines document presents the methods and standards to be used to develop CADD drawings for the CHSTP and are intended to provide a means to maintain consistency and uniformity in the presentation of contract drawings and to organize the electronic database in a manner that can be easily accessed and utilized across the project disciplines and geographic regions and utilized throughout the duration of the project.

The guidelines are to be adhered to throughout the project development process in order to provide a consistent set of organized drawings that contain sufficient information to clearly convey the design intent.

Special situations that require a deviation from the CADD guidelines must be presented to the CHSTP CADD manager for suggestions and solutions via the CHSTP CADD Standards request form discussed in Appendix A of this manual.

### 1.2 MINIMUM SYSTEM REQUIREMENTS

### 1.2.1 Sheet Production

The CHSTP standardCADD production platform shall be Bentley's MicroStation V8i (Select Series 1 or higher). Information regarding the system requirements for this production platform can be found on the Bentley website, link shown below:

http://ftp2.bentley.com/dist/collateral/docs/microstation/microstation\_product\_data\_sheet.pdf

### 1.2.2 Design Files

The CHSTP standardvertical design platform shall be Bentley's Power InRoads and Power Rail Track. Information rega ing the system requirements for this design platform can be found on the Bentley website, link shown below:

Power Rail Track: http://www.bentlev.com/en-US/Products/Power+Rail+Track/

Power InRoads: http://www.bentley.com/en-US/Products/Power+inroads

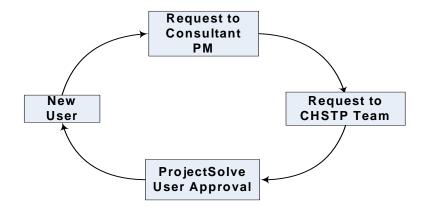
### 1.3 GENERAL INFORMATION

### 1.3.1 ProjectSolve Document Management System

The CHSTP management team has established ProjectSolve as its primary document management system. Its' purpose includes centralizing and maintaining all necessary documents between the management and design teams. Links to folders and files managed within ProjectSolve can be found throughout this document.

A formal request is required for any/all parties that need access to the CHTSP ProjectSolve site. The workflow shown has been established to streamline the process of granting new users permission to the site.





### 1.3.2 ProjectWise Document Management System

The CHSTP management team has also established ProjectWise as its primary electronic (DGN file) design drawing management system for Preliminary Design for Procurement and procurement drawing submittals.

### 1.3.3 Definition of Terms

As-Built Drawings

The following technical terms are used in this document and have specific connotations with rega to the CHSTP:

Construction Drawings modified to reflect design changes

7.6 Dain Diaminge	and actual conditions of construction, conformed from field and design changes directly from the Ready for Construction (RFC) drawings		
Contract drawings	Drawings files that are specific to the project and contract. Contract drawings include preliminary design drawings and construction drawings		
Construction Drawings	Drawings furnished by the contractor representing the post preliminary design project delivery, from final design through completion of construction. Construction drawings include Final Design drawings, Ready for Construction (RFC) drawings as As-Built drawings		
Contract Number	The number assigned to an individual design or construction project		
Directive Drawings	Directive Drawings provide mandatory design criteria in a graphical format that the Contractor shall follow and apply to ensure consistency during design for system-wide elements and features		
Drawing Number	Number found in the titleblock assigned to an preliminary, construction, standard or directive drawings		
Preliminary Engineering for Procurement	Preliminary engineering that demonstrate technical feasibility and constructability for procurement		
Ready for Construction Drawings (RFC)	Construction drawings designed to 100% that are ready and used during construction. They are the basis for the as-		

built drawings



for the overall preliminary design of the project

Resolution The 'worst-case' accuracy for the design environment that

occurs at the very outer limits of the working

area/plane/volume

Seed File A CADD template file that contains settings such as the

project global origin and working units and does not contain

design elements

Standard Drawings Standard project elements for general use in the

construction of the California High-Speed Train system, as

determined applicable by the Contractor

Title Block The title block in these guidelines is defined as the lower

portion of the drawing containing information such as

drawing title, signature blocks, project logos, et al

### 1.3.4 Acronyms

CADD Computer Aided Design and Drafting

CC Carbon Copy

CCS California Coordinate System

Caltrans California Department of Transportation
CHSTP California High-Speed Train Project

DGN MicroStation V8i cad file

EMT Engineering Management Team

NIST National Institute of Standards and Technology

PDF Portable Document Format
PMT Program Management Team

### 1.3.5 Units

The California High-Speed Train Project is based on U.S. Customary Units and defined by the National Institute of Standards and Technology (NIST). U.S. Customary Units are officially used in the United States, and are also known in the US as "English" or "Imperial" units. In order to avoid confusion, all formal references to units of measure should be made in terms of U.S. Customary Units. See the CHTSP Plans Preparation Manual for additional information regarding units.



### 1.3.6 Ha Copy Deliverables

Ha Copy files shall be available for transmittal in the following format:

- Black and white on recycled white copy paper for half size copies. Full size sets printed on 24lb bond plotter paper
- Each paper copy submittal shall be accompanied by a PDF submittal for each of the plan set packages.

Plot size is dependent on the submittal and shall be prepared as shown in the below chart:

Drawing submittal	PDF Half (11x17)	PDF Full (22x34)
15% Record Set	×	, ,
Preliminary Design for Procurement	х	
Design Baseline Report Drawings	х	
Construction Design Drawings	х	Х
Ready for Construction (RFC)	Х	х
As-Built	x	х

### 1.3.7 Electronic "Soft" Copy Deliverables

Electronic CADD files deliverables shall be available for transmittal with the following requirements:

- MicroStation V8i design files (DGN) format
- One model per DGN file

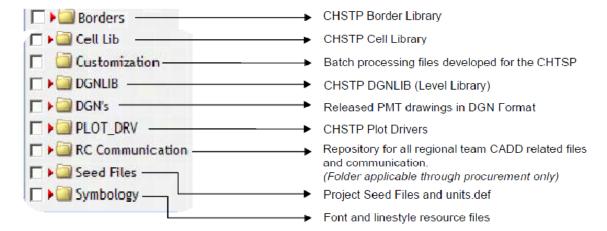
DGN requirements are dependent on the submittal and shall be prepared as shown in the below chart:

Drawing submittal	DGNs merged	DGNs unmerged	GIS (programmatic assets)
15% Record Set		х	x
Preliminary Design for Procurement		х	x
Design Baseline Report Drawings		х	x
Construction Design Drawings		х	x
Ready for Construction (RFC)	Х	х	x
As-Built	х		х



### 1.3.8 CADD Resource Library

The CHSTP PMT utilizes ProjectSolve as the central repository for all CADD resources files. Files residing in the CADD resources shall be, but not limited to, the list shown below:



Link to CADD Resources Folder:

https://ww3.projectsolve2.com/eRoom/SFOF7/Engineering/0\_48e9b

### 1.3.9 CHSTP CADD Inbox

The PMT has established a dedicated ProjectSolve Inbox to house all CADD related correspondence. It is required, for all CADD related correspondence transmitted to the PMT, to CC the CHSTP CADD Inbox.

**Email Address:** 

CHSTPCAD@projectsolvemail.com

### 1.3.10 CHSTP CADD Contacts

It is vital throughout the duration of the CHSTP Project to maintain a primary CADD Contact list. To date, the list includes names, emails and phone numbers for the EMT CADD Manager, EMT CADD Lead and all design consultants CADD leads. It shall be maintained throughout the lifecycle of the project, from preliminary design thru construction. Any revisions to the CADD contact list must be transmitted to the management team to ensure the contact list remains current.

Link to CHTSP CADD Contacts List:

https://WW3.projectsolve2.com/eRoom/SFOF7/Engineering/0\_c3556

### 1.3.11 CHSTP CADD Standa's Request Form

The CHSTP CADD Standard Request form has been established to maintain and certify any variances in the CADD Standa throughout the life cycle of the project.

A copy of the CHSTP CADD Standards Request can be found in Appendix A of this manual. Users must use the link below to the official PDF Form for all CADD standardsvariance request. As stated above in Section 1.3.10, all email requests shall CC the CHSTP CADD Inbox in addition to emailing the CADD manager:

Link to CHSTP CADD Standards Request Form:

https://WW3.projectsolve2.com/eRoom/SF0F7/Engineering/0 c3557



### 2.0 CADD FILE OVERVIEW

### 2.1 CADD FILES

The Design efforts will result in the creation of numerous CADD files, including master files, sheet files, nested files and working files.

### 2.2 MASTER FILES

Master files are intended as overlays to other CADD files and are used to share design data between disciplines and designers. Typically master files include survey, mapping topography, utilities, and track alignment.

See Section 3.1.1 for Master File Naming Convention

### 2.3 SHEET FILES

Sheet files will contain only sheet dependent information such as title block information, north arrow, bar scales, dimensions, and notes. Master files are attached to the sheet files and clipped to display design information particular to that sheet. Information viewed in the sheet can be manipulated with level controls. Details, sections, and elevations will be drawn to a scale as required to convey the necessary design information and design intent. Sheet files incorporate necessary design information to create a design discipline drawing for inclusion in a specific deliverable plan set. Plotting for drawings shall be done from the sheet files. Saved view titled "PLOT" shall be created for each sheet view.

See Section 3.4.1 for Sheet File Naming Convention.

See Plans Preparation Manual for additional information regarding sheet file generation

### 2.4 NESTING FILES

Nesting files are master files that are attached to the cut sheets using the "live nesting" feature. A nesting file is a compilation of master files that are displayed with the settings and level structure that are to be displayed in the cut sheet. When the nesting file is attached to the cut sheet with "live nesting" turned on, the sheet will display all of the levels and settings for all master files attached to the nesting file.

In o er for level display to work properly, MicroStation must have the variable MS\_NEWLEVELDISPLAY set to 1.

See Section 3.5.1 for Nesting File Naming Convention.

### 2.5 WORKING FILES

Working files may be used by designers to develop various options for alignment, structures, or other facilities and may become either a master file or sheet file. Working files can contain information to be used for design, calculation support, or "DRAFT" purposes only. Working files are not for inclusion in a specific deliverable plan set, nor are they to be referenced from any plan sheet file.

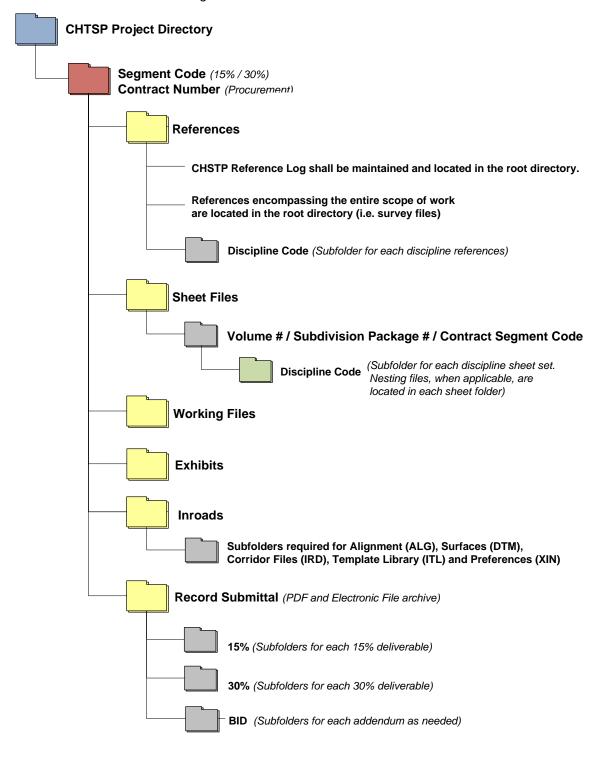
See Section 3.3 for Working File Naming Convention.



### 2.6 FILE MANAGEMENT AND DIRECTORY STRUCTURE

CHSTP has established a file directory system used to maintain and organize all project related electronic CADD files. Standardized project directory structure promotes efficient and effective storage and retrieval of active and archived CADD files.

The CADD folder structure and general contents shall be as follows:





### 2.7 PROJECT COO INATE SYSTEM

The California Coordinate System (CCS), North American Datum of 1983 (NAD83), shall be used for the horizontal coordinate system for the project. All CADD files shall adhere to the designated coo inate system to ensure that all design information can be readily transferred and integrated among various disciplines using reference files.

Source: Caltrans Surveys Manual - Chapter 4, Survey Datums:

http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/04\_Surveys.pdf

### 2.8 PROJECT VERTICAL DATUM

The vertical datum for the CHSTP design shall be the North American Vertical Datum of 1988 (NAVD88), as defined by the National Geodetic Survey (NGS). For exceptions to this policy, see Caltrans Surveys Manual - Chapter 4, Survey Datums.

Source: Caltrans Surveys Manual - Chapter 4, Survey Datums:

http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/04\_Surveys.pdf

### 2.9 PROJECT WORKING UNITS

CHSTP has established a Units.def file to ensure all project files have the same units defined. The master units, sub units, resolution and working area, as defined by the units.def and CHSTP seed files, for all CADD Drawings shall be the following:

Master Units (MU)------ Survey Feet (FT)
Sub Units (SU)------ Tenths (TN)
Resolution: ------ 10,000 per Foot
Working Area (each axis): ------ 170,591,236 Miles

The use of the CHTSP units.def is required and must be located in the file path defined in the MS\_CUSTOMUNITSDEF variable.

Link to the units.def:

https://ww3.projectsolve2.com/eRoom/SF0F7/Engineering/0 8053e

### 2.10 PROJECT SEED FILES

A seed file is a CADD template file that standardizes all new drawings that are created. Every file started with the correct seed file will have the same global origin, working units, attached dgnlib, color table, text style and dim styles. Seeds files shall not contain any design elements. When creating a new design file, the appropriate seed file shall be selected and copied to the desired folder and renamed based on the file naming conventions establish in Section 3.0. Project seed files provides a method and means for standardizing all DGN files created for this project.

The CHSTP has six seed files each representing the CCS NAD83 zones designated by Caltrans as standards for a 2-D or 3-D environment and one seed file for architectural and structural design. The six zone seed files cover the proposed CHSTP alignment and shall be used for all sheets that need to remain geo-referenced. For design files that fall within two zones, designers shall use the seed file which encompasses the majority of design. Caltrans state zone designations are included in Appendix H.

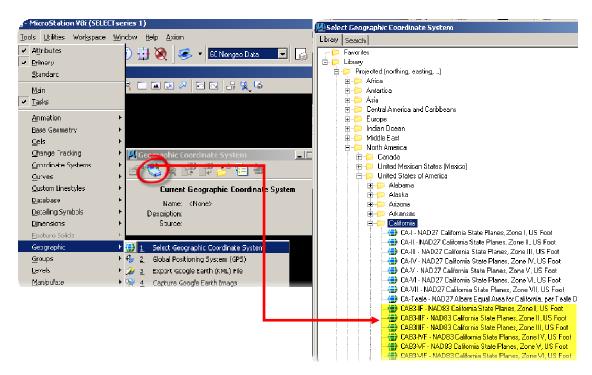


All CHSTP CADD files must be created from the correct seed file. All files shall be 2D except for those in support of design vertical applications. The list of CHSTP seed files are as follows:

CHTSP Project Seed Files			
2D (geo-referenced)	3D (geo-referenced)	2d (Non geo-referenced)	
2deseedZone1.dgn – Zone 1	3deseedZone1.dgn – Zone 1	Arch_Struc_seed.dgn	
2deseedZone2.dgn – Zone 2	3deseedZone2.dgn – Zone 2	v8seed.dgn	
2deseedZone3.dgn – Zone 3	3deseedZone3.dgn – Zone 3	v8seedz.dgn	
2deseedZone4.dgn – Zone 4	3deseedZone4.dgn – Zone 4		
2deseedZone5.dgn – Zone 5	3deseedZone5.dgn – Zone 5		
2deseedZone6.dgn – Zone 6	3deseedZone6.dgn – Zone 6		

All CHSTP CADD files shall be created from the correct seed file.

Each seed file has been supplemented to include its associated geographic coordinate system setting based upon the CCS NAD83 zones. The coordinate system setting can be accessed via the workflow shown below:



Link to the CHSTP seed files:

https://WW3.projectsolve2.com/eRoom/SFOF7/Engineering/0\_8053e



### 2.11 PROJECT RESOURCE FILES

The following resources files are provided for the CHSTP project:

CHTSP RESOURCE FILES		
CHSTP.cel	Cell library established for the project	
CHSTP.tbl	Color table established for the project	
CHSTPvars.txt	Project variables to supplement MicroStation workspaces setups	
Ctfont1.rsc* Font resource file established for the project		
Ctlstyle.rsc* Supplemental Line styles		
CTCELLIB.cel* Supplemental Civil Cell library		
RWEnglish_v8.cel* Supplemental Right of Way Cell Library		
Stcel.cel* Supplemental Structural Cell library		

<sup>\*</sup>Source: Caltrans Office of CADD and Engineering GIS Support

http://www.dot.ca.gov/hq/oppd/cadd/rsc\_files/webpage.php:



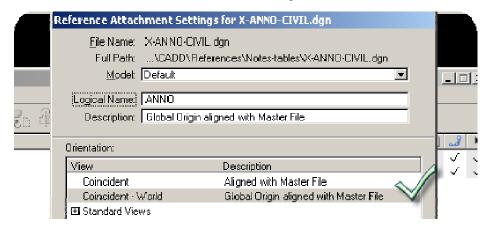
### 3.0 CADD FILE NAMING CONVENTION

Design efforts shall result in the creation of numerous CADD files, including reference files, sheet files and working files. For the CHSTP, these standards will evolve to accommodate software, ha ware and project advancement at logical conversion. The different file types, general usage and file naming convention are discussed below.

### 3.1 MASTER FILES

Master files contain discipline-specific design information in one continuous file and are referenced into sheet files (See Section 3.4 for description of sheet files). Additional or modified design information within a master file will automatically update in the sheet files.

Master files are tied to the project coordinate system and shall not be moved, rotated, or scaled in o er to preserve the coordinate system within the file and allow other Master files to be attached coincident to each other. All master files are attached using *Coincident-World* method.

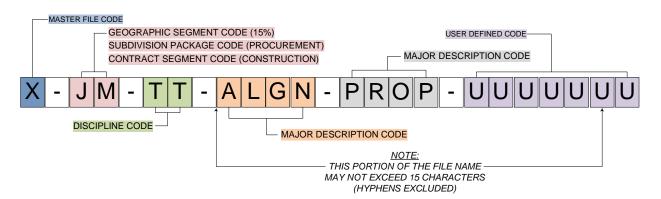


Master files shall not be nested. Nesting files are only permissible for sheet production.

See Section 3.5.1 for nesting file information

### 3.1.1 Master File Naming Convention

Master files shall be named using a maximum of 20 characters (excluding hyphens and the three-digit DGN file extension) based on the following template:





### Example:

X-JM-TT-ALGN-PROP

San Jose to Merced, Proposed Track Alignment master file

### 3.1.2 Master File Code (One character)



The first letter of all references shall describe its intended use. The two main master file codes are shown below:

"X" Master Files prepared for and referenced into design deliverables drawings		
"W"	Master Files prepared for preliminary purposes only and not inclusive of any design deliverable drawings	

See Section 3.3 for further information regarding working file descriptions and naming conventions.

## 3.1.3 Geographic Location Segment Code (Two characters) / Subdivision Package Code (Two characters)



The SECOND and THI characters shall vary depending upon submittal type. During 15% and the SECOND and THI characters indicate the Geographic Location Segment Code, shorthand for one of the ten regional segment identifiers. For Preliminary Design for Procurement design, the SECOND and THI characters indicate the Subdivision Package Code, shorthand for procurement package types prepared for each of the CHSTP subdivisions. For construction drawings, the SECOND and THI characters indicate the Contract Segment Code, shorthand for the CHSTP subdivision design-build construction contract number plus the segment code for drawing packages prepared for each package.



The Segment Codes, utilized during 15% design, are as follows:

GEOGRAPHIC SEGMENT CODE		
Segment Identifier	Segment Code	
San Francisco to San Jose	FJ	
San Jose to Merced	JM	
Altamont Pass	AJ	
Sacramento to Merced	SM	
Merced to Fresno	MF	
Fresno to Bakersfield	FB	
Bakersfield to Palmdale	BP	
Palmdale to Los Angeles	PL	
Los Angeles to Anaheim	LO	
Los Angeles to San Diego	LD	

The Subdivision Package Codes, utilized during Preliminary Design for Procurement, are as follows:

SUBDIVISION PACKAGE CODE*			
Package #	Subdivision	Description	
1	S	Sierra Subdivision Construction Package 1 Procurement Documents	

The Contract Segment Code, utilized during construction, is as follows:

CONTRACT SEGMENT CODE			
Contract Number**	Segment**	Description	
####	UUU	Sierra Subdivision Construction Package 1 Construction Documents	

<sup>\*</sup>Subdivision Package Codes shall be established as procurement packages are prepared.

<sup>\*\*</sup>Contract Number shall be established by the Authority. Segment Code shall be established by the contractor during the preparation of the construction drawings and submitted to the Authority for approval.



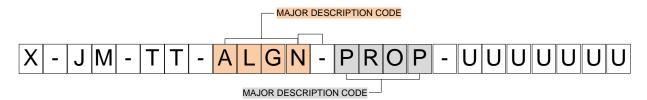
### 3.1.4 Discipline Code (Two characters)



The FOURTH and FIFTH characters indicate the Discipline Code.

See Appendix C for a complete list of Discipline Codes.

### 3.1.5 Major Description Codes (Four characters)



The SIXTH and THIRTEENTH characters indicate the Major Description Code. This four-character field code attempts to logically group together similar descriptions that cover multiple disciplines. Major codes can be combined to further differentiate and describe the master file. As shown in the example above, the major description code ALGN (alignment) is united with PROP (proposed) to create the reference file for proposed alignment line work.

The use of both major description codes is not required. A file name can contain one or two major discipline codes. The CHSTP has established a list of common major description codes that will be updated throughout the lifecycle of the project. For the list of Major Description Codes, see Appendix D.

For consistency throughout the master files, the use of the description code EXST (Existing) and PROP (proposed) shall always succeed another major description code. This will ensure that similar master files are group together. See example below:

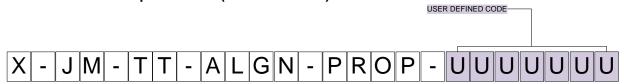
### Example:

X-JM-VS-EASE-EXST.dgn

X-JM-VS-EASE-PROP.dgn

San Jose to Merced, Existing and Proposed Survey Easement Files

### 3.1.6 User Defined Description Codes (Four characters)



The FOURTEENTH and TWENTIETH characters indicate the user defined description code. The Major description codes are not intended to be all inclusive. There are instances when project specific descriptions will need to be created. In the case of user-defined description codes, they shall contain no more than 6 characters (alpha, numeric or a combination of both). The additional characters shall always be appended to the end of the file name.



As shown in the example below, a common user-defined description code is the plotting scale. Example:

X-JM-TT-ALGN-200.dgn

San Jose to Merced, Proposed Track Alignment Master file, 200 scale

### 3.2 LOGICAL NAMES

Logical Names helps indentify a reference attachment. It will also provide consistency throughout the entire project plan sets and make it easier to execute routines and scripts for process automation. The CHSTP project will have the following logical names for the major reference files found in most sheet types: (note when two instances of a reference in found in a sheet, a numerical suffix is added to the logical name, i.e. TOPO, TOPO1 and TOPO2).

CHTSP LOGICAL NAMES		
Reference	Logical Name	
Bo er Reference	BDR	
Track Horizontal Alignment Reference	TALGN	
Track Alignment Vertical Profile Reference	TPROF	
Road Horizontal Alignment Reference	RALGN	
Road Alignment Vertical Profile Reference	RPROF	
Topographic Reference	TOPO	
Existing Utility Base map	XUTIL	
Proposed Utility Base map	PUTIL	
Structural Reference	STR	
Annotation Reference	ANNO	
Nesting Sheet Reference	NEST	
Traction Power Reference	PWER	
Grading Reference	GRAD	
OCS Reference	ocs	
Automatic Train Control Reference	ATC	
Communication conduit Reference	COMM	

### 3.3 Working Files

Working files are used by designers to prepare various options and/or concepts of a design to avoid confusion and interference with reference files currently in use for actual deliverables. Using working files maintains a recordof alternative conceptual design options that may have validity for the future but are not deemed "deliverables". Working files contain project design information prepared only in support of the creation of design discipline drawings or calculations. Working drawings to be plotted for any purpose, including temporary use, inclusion in calculation sets, etc. will be clearly labeled "Working Drawing – DRAFT -" within the electronic file such that a clear distinction can be made from reference or sheet file plots.

Working files are not for inclusion in a specific deliverable plan set, nor are they to be referenced from any plan sheet file. However, CHSTP CADD standards do apply to CADD working files.



For consistency and differentiation from master files referenced into plan sheets, the nested filename shall begin with "W-".

### Example:

W-MF-TT-ALGN-PROP-UPRR

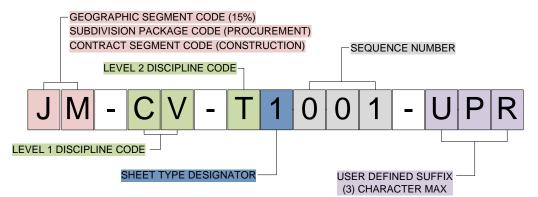
Merced to Fresno, Working file for Proposed Track Alignment, UPRR alternative

### 3.4 SHEET FILES

Sheet files shall contain north arrow, bar scale, notes, dimensions, etc and shall have attached appropriate reference files such as a standard project border file. Plotting for all drawings shall be done from the sheet files.

### 3.4.1 Sheet File Naming Convention

Sheet files shall be named using 12 characters (hyphens do not count as a character) plus the three character extension "DGN" based on the following template:



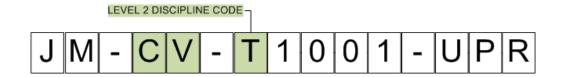
Information regarding the first two characters in the sheet file naming convention can be found in Section 3.1.3 of this manual

### Example:

JM-CV-T1001-UPR.dgn

San Jose to Merced, Package 1, Civil Grade Separation, Plan and Profile Sheet Drawing Sequence Plan No. 001 for Alignment Alternative UPRR

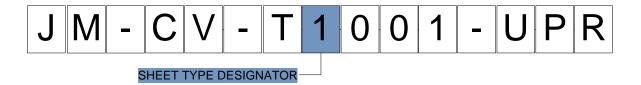
### 3.4.2 Level 1 & 2 Discipline Code



The THI, FOURTH and FIFTH character represent the Level 1 and Level 2 discipline codes. They are used to distinguish sheet sets within each of the various discipline procured for this project. For a complete list of Level 1 and Level 2 discipline codes Appendix C of the CADD Manual

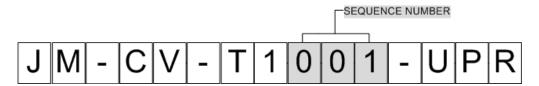


### 3.4.3 Sheet Type Designators



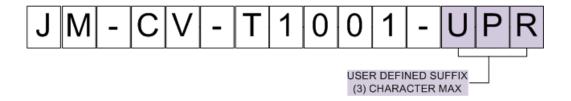
The SIXTH character indicates the Sheet Type Designator as established by the CHSTP Team. The sheet type is indentified by a single numerical character. Sheet types apply across multiple disciplines. For a complete list of Sheet Type Designators, See Appendix E of the CADD Manual

### 3.4.4 Sequence Number



The SEVENTH through NINTH characters indicate the Sequence Number as established by the CHSTP Team. The sequence number will be assigned in series format, with each block of 100 drawings reserved for each discipline subset. First plan set of each set will start at 001. Subsequent sheets will follow as 002 thru 999.

### 3.4.5 User Defined Designator



The TENTH through TWELFTH characters indicate a user defined designator as established by the CHSTP Team. The user defined is reserved as a necessary suffix to distinguish sheet files that can possibly have the same sheet number (i.e. in the case of an alignment alternative). The user defined code shall be a minimum of 1 character with a maximum of 3 characters.

### 3.4.6 Drawing Number

The drawings number to be shown in the title block shall be the sheet filename without the Contract Number or Geographic Segment Code and Package prefix.

### Example:

CADD Filename: JM-CV-T1001-UPR.dgn

Drawing Number: CV-T1001-UPR



### 3.5 PLAN SHEET FILES

Information on plan sheet files usually requires the use of design reference files. Necessary design reference files shall be referenced to sheet files and clipped at the match lines to produce a design discipline drawing. The reference files, with the exception of the standard project border, *shall not be scaled, rotated or moved*, since this shifts the data away from the project coordinate system. The standard project border reference file shall be referenced, scaled, rotated and moved to cover the design information required on the design reference files. Also, the view shall be rotated so the border is horizontal.

Generally, civil and track plans as well as plans illustrating tunnel alignment will be produced in engineering scales (1"=10', 1"=20', et al). Station and Structural plans shall be shown in engineering and architectural scales (1/8"=1', 1/16", et al).

### 3.5.1 Nesting Files

Nesting files are reference files that are attached to the cut sheets using the "live nesting" feature. A nesting file is a compilation of reference files that are displayed with the settings and level structure that are to be displayed in the cut sheet. When the nesting file is attached to the cut sheet with "live nesting" turned on, the sheet will display all of the levels and settings for all reference files attached to the nesting file.

To ensure consistency between a series of cut sheets, all reference file and level manipulation in a series of sheets should be done directly to the nesting files and not from within the sheet itself.

For example, if you had 20 cut sheets all showing spot elevations from the topography base map, you would go into the nesting file that referenced the topography base map, and was attached to all 20 sheets with "live nesting' turned on, and turn the level that contained spot elevations off directly in the nesting file. This in turn would cause that level to turn off in all 20 sheets. Also, if you wanted to add a particular reference file to all 20 sheets you would simply attach that file to the nesting file that was already attached (and clipped) to all of the cut sheets, and in turn that file would be attached and displayed in all 20 sheets.

In order to ensure that nesting files are not inadvertently manipulated to alter the appearance of a particular drawing, each series of cut sheets will have its own particular nesting files that are referenced to no other sheets or drawings, and in turn each nesting file will be referenced to only one series of drawings.

For consistency, the nested filename shall begin with "NEST-".

Example:

NEST-JM-TT-D1000.dgn

San Jose to Merced, Track Plan and Profile Sheet Nesting File

### 3.5.2 Borders

The CHSTP has two main borders for the use in design drawings and exhibits and figures respectively. Preliminary and design-build drawing shall use the X-BDR-CHSTP.dgn

Exhibits and sketches shall use EXH-BDR-CHSTP.dgn. See Appendix B for information regarding the borders.



### 3.5.3 Plan Sheet Drawing Scales

Drawings will be prepared at the following (full size drawing) scales:

15% Design Level (Civil)

Horizontal 1"=200'; Vertical 1"=20' For undeveloped areas

Horizontal 1"=200'; Vertical 1"=20' For developed areas

Horizontal 1"=100'; Vertical 1"=10' In constrained urban areas

Horizontal 1"=50'; Vertical 1"=5' at stations and special study areas and as appropriate to achieve design level

Preliminary Design for Procurement Design Level (Civil)

Horizontal 1"=100'; Vertical 1"=10' for undeveloped, developed and constrained urban areas

Horizontal 1"=50'; Vertical 1"=5' at stations and special study areas and as appropriate to achieve design level

Structural & Architectural Scales per Caltrans Structural Seed file

• 15%/Preliminary Design for Procurement Design Level (Structures)

General Plan 1"=20' (for structures 150' or less)

Elevation 1"=20'

For structures 150' or greater, an appropriate engineering drawing scale is required. Plan and Elevation scales shall be identical.

• 15%/Preliminary Design for Procurement Design Level (Architecture)

Site Plan 1"=100"

Platform Plan 1"=50'

Enlarged Partial Platform Plan 1/16"=1' or 1"=20'

Concourse/Mezzanine Plan 1"=50"

Enlarged Partial Concourse Plan 1/16"=1'

Bldg Elevations 1/16"=1' or 1"=20'

Bldg Cross/Long Sections 1/16"=1' or 1"=20'

### 3.5.4 Elevation, Section and Detail Sheet Files

Information on elevation, section and detail sheet files does not require the use of design reference files, except for the standa project border and when necessary, the file itself. Sheet files also consist of schematics, line diagrams, charts and tables.

The Border file is always attached at scale 1"=1' (1:1) with the exception of General Elevation sheets. Other exceptions will be at CADD manager's discretion.



### 3.5.5 Mixing Drawing Scales

There are two drawing types where a mix of scale occurs: detail drawings (where it is known in advance that there will be details drawn at different scales), and plan drawings with details at a different scale than the rest of the sheet file. The instructions for both types of drawings are below.

Example Using Bo er Scale:

Detail Drawings: An Appropriate scale is chosen based upon the scale of the details. If the scales of details all vary, the border shall be attached 1"=1" (1:1). The use of a master detail file is permitted for the use of true scaling and measurement.

Plan Drawings: The border remains at its proper scale: 1"=30' (30:1), 1"=100' (100:1), etc. Details are scaled appropriately as needed.



### 4.0 LEVELS AND SYMBOLOGY

### 4.1 GENERAL

Design information within a CADD file is organized into levels. For each discipline, each design element shall be drawn on its appropriate level and symbology. It is important that the level structure is followed. Symbology (color, line style, line weight) for all levels should be set to "By Level". This will ensure that the correct symbology is automatically selected when a level is chosen. Proper use of levels affo s all CADD users the flexibility to turn on or off design data necessary for different drawings.

### 4.2 DESIGN FILE LIBRARIES (DGNLIB)

Design File Libraries (DGNLIBs) are files that set the level names, level symbology, text and dimension styles and are referenced to the project workspace at the start of a MicroStation session. The CADD user should never have to attach the project dgnlib file nor have to manually change any settings for placing text or dimensions. If a special situation calls for additional levels or to modify text or dimension styles, the requests shall be made via the CHTSP CADD Standa's request sheet. See Appendix F for additional information regarding the DGNLIB.

Link to CHTSP CADD Standards request sheet:

https://WW3.projectsolve2.com/eRoom/SFOF7/Engineering/0 c3557

### 4.3 FONTS AND TEXT

It is important to place text at the appropriate size within the drawing based upon the intended scale of the plotted plan sheet for clarity and readability of text. For consistency, the fonts and text sizes are defined within dgnlib file by scale. The below chart defines the text and fonts sizes to be used in all packages and discipline.

Engineering			
	Text Height and Width		
Scale	Text (Font 3)	Subtitle (Font 3)	Title (Font Arial Black)
1"=1'	0.14	0.175	0.24
1"=5'	0.70	0.875	1.2
1"=10'	1.40	1.75	2.4
1"=20'	2.80	3.5	4.8
1"=30'	4.20	5.25	7.2
1"=40'	5.60	7	9.6
1"=50'	7.00	8.75	12
1"=60'	8.40	10.5	14.4
1"=80'	11.20	14	19.2
1"=100'	14.00	17.5	24
1"=200'	28.00	35	48
1"=500'	70.00	87.5	120



ARCHITECTURAL			
	Text Height and Width		
Scale	Text (Font 3)	Subtitle (Font 3)	Title (Font Arial Black)
3"=1'	0.046	0.058	0.066
1 1/2"=1'	0.094	0.117	0.134
1"=1'	0.140	0.175	0.200
3/4"=1'	0.186	0.233	0.266
1/2"=1'	0.280	0.350	0.400
3/8"=1'	0.373	0.467	0.533
1/4"=1'	0.560	0.700	0.800
3/16"=1'	0.746	0.933	1.066
1/8"=1'	1.120	1.400	1.600
3/32"=1'	1.494	1.867	2.134
1/16"=1'	2.240	2.800	3.200

### 4.3.1 Text Placement Guidelines

The following guidelines should be followed when placing text:

- All lettering shall be upper case.
- Custom fonts should not be used.
- Underlining shall not be placed as a separate element. Blank spaces on either side of the text may not be inserted to make the underlining longer than the text.
- Stacked fractions (1/2) are required.

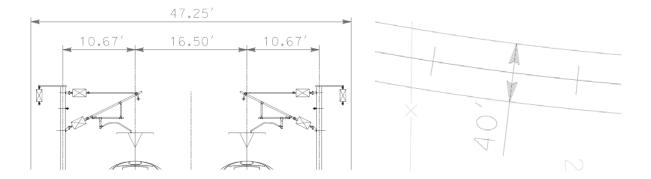
### 4.4 DIMENSIONING

Automatic Dimensioning shall be used for all drawings. Similar to text settings, dimension Settings are set within the *CHSTP.dgnlib* design file library.

Dimension text shall be placed on the appropriate text level with "By Level" symbology.



The dimension alignment modes shall be either view or true. View will allow Automatic Dimensioning to be placed aligned with the drawing view. True will allow automatic dimensioning to be placed true to the element, usually when the element is on an angle from the view. Dimensions shall be placed as necessary and the text shall always be aligned with the dimension line as shown below.



### 4.5 LINE STYLES

The project line style resource file is *CHTSP.rsc*. The CHSTP line style resource file has been generated from the Caltrans line style resource file (ctlstyle.rsc). MicroStation's default line styles 0 thru 7 are also accessible. The line styles are assigned to levels using By Level in Level Manager. See Appendix G for a complete list of line styles.



### 5.0 PLOTTING AND PEN TABLES

### 5.1 PLOTTING

All ha copies will contain plot stamps. This plot stamps can be found on the left margin of the bo er file. This stamp identifies the name and path of the DGN file, the time and date plotted, the name of the operator who plotted the copy, and the design script used for the plot.

### 5.2 PLOT DRIVERS

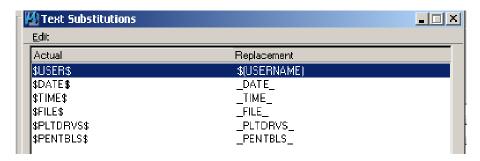
Plot drivers shall be used for all design drawing printing. The plot drivers have been established based upon plot size and plot color output. Plot drivers shall not be modified. Any request for changes must be done via the CHSTP CAD StandardRequest Form found in Appendix A. The plot drivers to be used on the project are:

PLOTTING FILES		
CHSR_full_black.plt	Black/White Full Size (22x34) System Printer Plot Driver	
CHSR_full_color.plt	Color Full Size (22x34) System Printer Plot Driver	
CHSR_half_black.plt	Black/White Half Size (11x17) System Printer Plot Driver	
CHSR_half_color.plt	Color Half Size (11x17) System Printer Plot Driver	
CHSR_PDF_full_black.plt	Black/White Full Size (22x34) PDF Plot Driver	
CHSR_PDF_half_black.plt	Black/White Half Size (11x17) PDF Plot Driver	

### 5.3 PEN TABLE

The Pentable provides the text substitutions for the plot stamps found in the bo er file. It does not control any printing attributes for drawing entities with the exception of the topographic survey file. The screening colors, screening levels and text substitutions found in the pen table show below:

SCREENING COLORS		SCREEN	ING LEVELS
CO = 130	: Preliminary Design for Procurement Black	LV = 2-12	: 40% Black
CO = 140	: 40% Black		
CO = 150	: 50% Black		
CO = 160	: 60% Black		
FILL = 250	: 100% Screen (masking fill)		





### **APPENDIX A - CHSTP CADD STANDARDS REQUEST FORM**



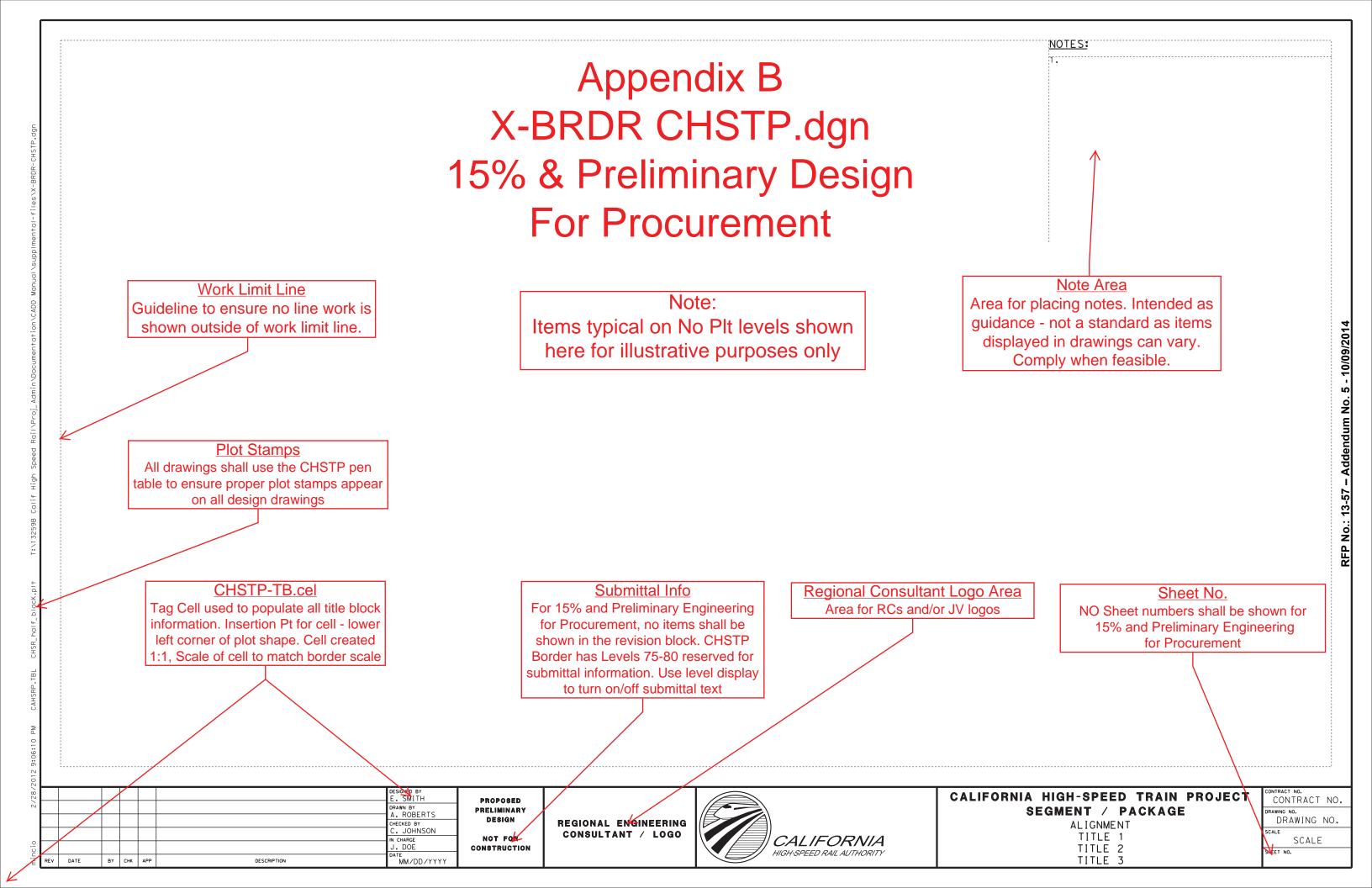
Name:	
Segment:	
Date Submitted:	
CADD Standards Category	
Levels/DGNLib	File Naming Convention
CellLib	Abbreviations
LineStyles	Seed Files
	Misc
Summary of Request:	
12	
8	
27	
Reviewed By:	
Response:	
79	

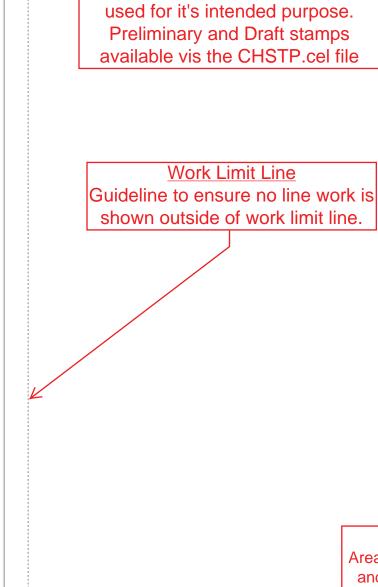
CADD Standard Report Form Rev0











NOT FOR CONSTRUCTION

Project Stamps

Printing Stamp to ensure exhibit is

# Appendix B EXH-BRDR-CHSTP.dgn Use for exhibits only

Note:
Items typical on No Plt levels shown here for illustrative purposes only

Note Area

Area for placing notes. Intended as guidance - not a standard as items displayed in exhibits can vary.

Comply when feasible.

NOTES:

NOTES IN UPPER RIGHT CORNER WHEN FEASIBLE

RFP No.: 13-57 - Addendum No. 5 - 10/09/2014

Logo
Area for individual company and/or joint venture logos

DATE:



COMPANY LOGO

# CALIFORNIA HIGH-SPEED TRAIN PROJECT SEGMENT / DISCIPLINE

### APPENDIX C - LEVEL 1 & LEVEL 2 DISCIPLINE DESIGNATOR

Note: Each Design Drawing must have a Level 2 Designator Code. Addendums to the Level 2 Designator Code list shall be incorporated at the CADD Manager's discretion via the CHSTP CADD Standards Request Form. Link shown below:

https://WW3.projectsolve2.com/eRoom/SFOF7/Engineering/0 c3557

Discipline Designator		ARCHITECTURE
Level 1	Level 2	Level 2 Description
AR	В	General
AR	С	Site Plan
AR	D	Platform Plan
AR	F	Concourse/Mezzanine Plan
AR	Н	Roof Plans
AR	J	Station
AR	Υ	User defined
Discipline	Designator	CIVIL
Level 1	Level 2	Level 2 Description
CV	В	General
CV	D	Demolition
CV	G	Grading and Drainage
CV	Н	Hydrology
CV	1	Construction Staging
CV	Р	Paving
CV	R	Roadways
CV	S	Site
CV	Т	Grade Separation/Crossings
CV	Υ	User Defined



Discipline Designator		COMMUNICATIONS
Level 1	Level 2	Level 2 Description
CO	В	General
СО	С	System Architecture
СО	D	Logical
СО	Е	Functional Site Layout
СО	F	Physical Site Layout
СО	G	Typical Device and Installation Details
CO	Υ	User Defined
Discipline	Designator	ELECTRIC
Level 1	Level 2	Level 2 Description
EL	В	General
EL	L	Lighting
EL	Υ	Auxiliary Systems
EL	S	Instrumentation
EL	Υ	User Defined
Discipline	Designator	FIRE PROTECTION
Level 1	Level 2	Level 2 Description
EL	В	General
EL	L	Detection and Alarm
EL	S	Fire Suppression
EL	Υ	User Defined
Discipline Designator		GENERAL
Level 1	Level 2	Level 2 Description
GE	А	Index of Drawings
GE	В	General Notes
GE	С	Abbreviations and Symbols
GE	D	Key Map



Discipline Designator		GEOTECHNICAL
Level 1	Level 2	Level 2 Description
GT	В	General
GT	Υ	User Defined
Discipline	Designator	LANDSCAPING
Level 1	Level 2	Level 2 Description
LA	В	General
LA	D	Demolition
LA	J	Irrigation
LA	L	Lighting
LA	Р	Planting
LA	R	Relocation
LA	Υ	User Defined
Discipline	Designator	MAINTENANCE
Level 1	Level 2	Level 2 Description
MY	В	General
MY	С	Overall Site Plan
MY	D	Ya Track Plans
MY	Е	Ya Systems Plans (TC and OCS)
MY	Υ	User Defined
Discipline	Designator	MECHANICAL
Level 1	Level 2	Level 2 Description
ME	В	General
ME	D	Demolition
ME	Н	HVAC
ME	J	Instrumentation
ME	Р	Piping
ME	S	Site
ME	Υ	User Defined



Discipline Designator		OVERHEAD CONTACT SYSTEM
Level 1	Level 2	Level 2 Description
ОС	В	General
ОС	С	OCS Schematic
ОС	D	OCS Layout
ОС	E	OCS General Arrangement
ОС	F	OCS Assembly
ОС	G	OCS Technical/Wire
ОС	Н	OCS Foundations
ОС	J	OCS Grounding and Bonding
ОС	Υ	User Defined
Discipline	Designator	PLUMBING
Level 1	Level 2	Level 2 Description
PL	В	Site
PL	С	Equipment
PL	D	Piping
PL	Υ	User Defined
Discipline	Designator	RIGHT-OF-WAY
Level 1	Level 2	Level 2 Description
RW	В	General
RW	С	Key Map and Line Index
RW	М	Appraisal Map
RW	Υ	User Defined
Discipline	Designator	STRUCTURES
Level 1	Level 2	Level 2 Description
ST	В	General
ST	С	Demolition
ST	D	Framing
ST	Е	Building
ST	F	Column/Footings
ST	G	Retaining Wall
ST	Н	Substructure
ST	J	Viaducts
ST	K	Bridges
ST	Υ	User Defined



Discipline Designator		SURVEY / MAPPING
Level 1	Level 2	Level 2 Description
VS	В	General
VS	С	Survey Data Control Sheets
VS	D	Existing Condition/Topography Plans
VS	Υ	User Defined
Discipline I	Designator	TRACK
Level 1	Level 2	Level 2 Description
TT	В	General
TT	С	Key Map
TT	D	Alignment Drawings
TT	Е	Track Chart
TT	Υ	User Defined
Discipline I	Designator	TRACTION POWER
Level 1	Level 2	Level 2 Description
TP	В	General
TP	С	One-Line Diagrams
TP	D	Traction Power Facility Layouts
TP	Е	Equipment Arrangements - Prefabricated Enclosures
TP	F	TPS Interface Drawings
TP	G	Neutral Return Systems
TP	I	Relay and Metering
TP	J	Ground Grid
TP	L	SCADA Points List
TP	М	Cable and Conduit Schedules
TP	N	Duct Banks and Manholes
TP	0	TPS Site Plans
TP	Р	TPS Utility Relocation Plans
TP	Q	TPS Site Grading and Paving Plans
TP	R	TPS Foundation Plans and Details
TP	Υ	User Defined



Discipline Designator		TRAIN CONTROL
Level 1	Level 2	Level 2 Description
TC	В	General
TC	С	Single Line Diagrams
TC	D	Double Line Diagrams
TC	Е	Schematics
TC	F	Interlocking Site Plans and Layouts
TC	G	Interlocking houses, foundations, and site details
TC	Н	Wayside equipment cases, foundations, and site deta
TC	J	Signals, indicators, and fixed signs
TC	K	Switch layouts and equipment
TC	L	Track mounted equipment
TC	Υ	User Defined
Discipline	Designator	TUNNEL
Level 1	Level 2	Level 2 Description
TN	В	General
TN	С	Tunnel Configurations
TN	D	Portals and Shafts
TN	Е	Niches/Auxiliary Structure
TN	F	Fixed Equipment
TN	Υ	User Defined
Discipline	Designator	UTILITY
Level 1	Level 2	Level 2 Description
UT	В	General
UT	С	Composite Utility Plan
UT	D	Utility Protection and Relocation
UT	Υ	User Defined



## **APPENDIX D - MAJOR DESCRIPTION CODES**

Major Description Codes		
025Y	25-year mark	
050Y	50-year mark	
100Y	100-year mark	
200Y	200-year mark	
ABLT	Anchor bolts	
ABOV	Above	
ABUT	Abutment	
ACCS	Access	
ADAL	ADA requirement line work	
AERL	Aerial	
ALGN	Alignment	
ALRM	Alarm system	
ANNO	Annotation	
AREA	Area	
ASPH	Asphalt	
AUXL	Auxiliary systems	
BACK	Back	
BARR	Barrier	
BASN	Stilling and settling basin	
BBAC	Battery backup	
BCST	Broadcast related system (radio or TV)	
BEAM	Beams	
BEDS	Perennial and annual beds	
BELL	Bell system	
BENT	Top of bent	
BKRS	Breakers	
BLBD	Boiler blow down piping	
BLDG	Buildings and primary structures	
BLIN	Baseline	
BMRK	Benchmarks	
BNDY	Boundaries	
BORE	Borings	
BOTM	Bottom	
BRCG	Bracing	
BG	Bridge	
BR	Bo er	
BRKL	Break lines	



BRNG	Poorings and distance labels
BUOY	Bearings and distance labels
CABL	Buoy Cable systems
CABL	Cable systems  Cathodic Protection System
CATH	
CCTV	Cable television system
	Closed-circuit television system
CD~~	Condensate drain-system
CIPR	Culvert inlet protection
CIRC	Circuits
CITY	City
CLAS	Classifications
CLNG	Ceiling
CLOK	Clock system
CMPR	Computer
CNDT	Diversionary/bypass conduit/culvert
CNMB	Circuit numbers
CNST	Construction Staging
CNTE	Construction entrance
CNTJ	Construction joint
CNTR	Center
CNTY	County
COAX	Coax cable
CODE	Code compliance plan
COLS	Columns
COMM	Communications
CONC	Concrete
CONT	Controls and instrumentation
COVR	Coverage
CRIT	Critical
CTLA	Controlled access
CTLJ	Control joint
CTNR	Container or planter
CTRL	Control points
CURB	Curb
CURV	Curve
DATA	Data
DECK	Deck
DEPR	Depression
DETL	Detail
DEVC	Devices
DIAG	Diagrams
DIMS	Diagrams  Dimensions
SININ	Dimensions



DOOR	Doors
DRIV	Driveways
DRNG	Drainage
DTCH	Ditches or washes
DUCT	Ductwork
EDGE	Edge
ELEC	Electrical
ELEV	Elevation
ELHT	Electric heat
EMER	Emergency
ENCL	Equipment enclosures
ENER	Energy management systems
EPIP	Equipment with piping and electricity
EQPM	Equipment
EROS	Erosion and sediment control
ERTH	Earth
ESMT	Easements
EVAC	Evacuation plan
EXHS	Exhaust system
EXIT	Exit
EXST	Existing
EXTR	Exterior
FACE	Face
FALT	Fault lines
FDPL	Flood plain
FDTA	Field data
FENC	Fences
FIBR	Fiber optics cable
FILL	Fill and cover material
FIRE	Fire protection
FIXD	Fixed
FIXT	Fixtures
FLDR	Floor drains
FLOR	Floor
FLOW	Flow line
FNDN	Foundation
FNSH	Finishes
FORC	Force main
FREE	Freestanding
FRMG	Framing
FTNG	Footings
FURN	Furnishings
FUNIN	Fullisiiilys



GAGE	Gauge
GATE	Gate
GCVR	Ground cover
GENF	General features
GNDW	Ground water
GRAL	Gua rail
GRBM	Grade beams
GRID	Grid
GRLN	Grade line
GRND	Ground
GRTG	Grating
GRVL	Gravel
HIDD	Objects or lines hidden from view
HOLE	Holes
HORZ	Horizontal
HOSE	Hoses
HRAL	Handrails/gua rails
HVAC	HVAC systems
HWAL	Headwall
HWTR	Hot water heating system
HYDR	Hydraulic structure
INEG	Ingress/egress
INPR	Inlet protection
INST	Instrumentation
INTC	Intercom / PA systems
INTK	Intake
INTR	Interior
IRRG	Irrigation
JACK	Jacks
JAMB	Door and window jambs
JBOX	Junction box
JNTC	Control joint
JNTS	Joints
KYMP	Keymap
LABL	Labels
LAND	Land
LEAS	Lease
LEGN	Legend, symbols keys
LEVE	Levee
LICN	License
LITE	Lighting
LOCN	Limits of construction



Longitudinal
Lower
Landscape
Lightning protection system
Lateral pipe
Mainline
Major
Section Markers
Match lines
Mounting system
Miscellaneous piping systems
Masonry
Multi-conductor cable
Moving/Suspended
Natural gas systems
Node
Notes
Non-plotting graphic information
Noise barrier
Objects
Openings
Outline
Overhead
Pads
Panels
Texture or hatch patterns
Unit pavers
Pile caps
Pre-cast concrete
Permanent
Telephone system
Drilled piers
Piles
Piping
Plan
Platform
Plant and landscape material
Plywood
Permit
System panels
Point



POLE	Poles
POLM	Pole-mounted
POND	Ponds
POST	Posts
POWR	Power
PPIP	Process piping
PRCL	Parcels
PRIM	Primary
PRKG	Parking
PROC	Process systems
PROF	Profile
PROP	Proposed
PROT	Fire protection system
PRPT	Parapet
PRTN	Partitions
PRTY	Property
PVMG	Pavement markings
PVMT	Pavement
RAIL	Railroad
RAIS	Raised
RAMP	Ramp
RATE	Ratings
RBAR	Reinforcing bar
RCON	Reinforced concrete
RDGE	Roof ridges
RLOC	Relocation
RETN	Return
REVC	Revision clouds
REVS	Revision indicators and text
RFDR	Roof drains
RFEQ	Rooftop equipment
RISR	Risers
RIVR	River
ROAD	Roadway
ROCK	Large rocks and rock outcroppings
ROOF	Roof
RRAP	Riprap
RSRV	Reservation
RTWL	Retaining wall
RWAY	Right-of-way
SATD	Satellite dishes
SAUD	Audio signal



CDCV	Sathack lines
SBCK SBST	Setback lines Substations
SCHD	Substations Schedules
SCOM	Communications signal
SCTL	Control signal
SDAT	Data signal
SDGA	Digital audio signal
SDGV	Digital video signal
SEAT	Seating
SECD	Secondary
SECT	Section
SEED	Seeding areas
SGHT	Sight distance
SHAD	Shadow area
SHEA	Structural bearing or shear walls
SHLF	Wall-mounted shelving
SIGN	Signage
SILL	Window sills
SILT	Silt fence
SITE	Site features
SIZE	Ductwork size
SKCH	Sketch
SKLT	Skylight
SLAB	Slab
SLVE	Pipe sleeve
SMIC	Microphone signal
SMOK	Smoke detector/heat sensors
SOIL	Soils
SOUN	Sound system
SPCL	Special systems
SPKL	Sprinklers
SPLY	Supply
SPOT	Spot elevations
SSWR	Sanitary sewer
STAN	Stationing
STAT	State
STEL	Steel
STEP	Steps
STOR	Storage
STRC	Structures
STRM	Storm sewer
STRP	
SIRP	Striping



STRS	Stairs
SUBD	Subdivision (interior) lines
SUBS	Sub-surface areas
SUPT	Support Support
SURF	Surface areas
SURV	Survey
SUSP	Suspended elements
SWAY	Spillway
SWBD	Switchboa s
SWCH	Switches
SWLK	Sidewalks
SWMT	Storm water management
SWNF	Solvent waste non-flammable-system
SYMB	Reference symbols
TABL	Data tables
TANK	Storage tanks
TEMP	Temporary
TEST	Test stations
TEXT	Text
THER	Thermostats
TICK	Tick marks
TILE	Tile
TINN	Triangulated irregular network
TITL	Drawing or detail titles
TOPB	Top of bank
TOPO	Topographic feature
TOWR	Towers
TPIT	Test pits
TRAC	Tract lines
TRAK	Track
TRAL	Trails or paths
TRAN	Transmission system
TRAV	Transverse
TRAY	Cable tray and wire ways
TREE	Trees
TRUS	Trusses
TSHP	Town or township
TTLB	Titleblock stamp in bo ers
TURF	Lawn areas
TVVS	Television and video system
UGND	Underground
UPPR	Upper



UPVD	Unpaved surface
URAC	Under-floor raceways
UTIL	Utilities
VACU	Vacuum
VALV	Valves
VEGE	Trees, shrubs, and other vegetation
VENT	Vents
VERT	Vertical
VIEW	View
VOID	Void regions
WALL	Walls
WATR	Water supply
WDWK	Architectural woodwork
WELL	Well
WETL	Wetlands
WIRE	Wiring
WKSF	Work surface
WOOD	Wood
WWAY	Waterway
XFMR	Transformers
ZONE	Zoning



## APPENDIX E - SHEET TYPE DESIGNATORS

## **Sheet Type Designators** 0 General Drawings (Title Sheet, Drawing Index, Data Tables, Notes, Typical Sections and Abbreviations/Symbols) 1 Plan and Profile, and Profile view only 2 Elevation 3 Sections (Section View, Wall Sections and Cross Sections) 4 **Enlarged Plan View** 5 **Details** 6 Schedules, Schematics, Charts, Tables and Diagrams 7 User Defined 1 (for sheet types that do not fall in the categories as defined above) 8 User Defined 2 (for sheet types that do not fall in the categories as defined above)



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3D Renderings

## **APPENDIX F - DGNLIB**

CHSTP DGNLIB Levels	
Level Prefix	Description
1-9,11-12	Caltrans Existing Survey Levels. For use in the topographic survey file only
Level Number	Caltrans Existing Level 0-999. Items of work within this category include roadway, utility, structural and right of way
ТТ	Track alignment items including station line, annotation, track grid and existing railroad facilities
TP	Track alignment items including station line, annotation, track grid and existing railroad facilities  Traction Power items including traction power site facilities, equipment, symbols and annotation.  Overhead Contact System items including OCS poles, equipment and annotation  Automatic Train Control items including signal houses, interlocking site, train
ОС	Overhead Contact System items including OCS poles, equipment and annotation
AC	Automatic Train Control items including signal houses, interlocking site, train control equipment and annotation.
СО	Communications items including conduits, communication site facilities and annotation
MY	Maintenance Facility items including maintenance yard track, maintenance site facilities and annotation



	CHSTP	DGNLIB Level
Number	Name	Description
1	Control	(Includes Survey Monuments)
2	Exist Man Made	Exist Man-Made Features
3	Exist wy	Exist Roadway Features
4	Exist Veg_Nat	Exist Veg & Natural Features
5	Exist Utils	Exist Utility Features
6	Exist Hydro	Exist Hydrographic Features
7	Contours	Relief Features / Contours
8	Spot Elev	Spot Elev / Contour Annotation
9	Profile Grid	Profile Grid
10	Sheet Format	(Includes North Arrow)
11	Undefined	Undefined level
12	Coo Grid	Coo inate Grid
13	Ramp Align	Ramp Over & Undercrossing Align
14	Ramp Anno	Ramp Over & Undercrossing Anno
15	Main Align	Mainline Alignment Data
16	Main Anno	Mainline Annotation Data
17	Front Align	Frontage Alignment Data
18	Front Anno	Frontage Alignment Annotation
19	Undefined	Undefined level
20	Pave Edges	Pavement Edges
21	Curb Gutter	Curbs Gutters & Dikes
22	Misc Cnst Det	Misc Construction Details
23	Layout Notes	Layout Notes
24	Oblit_ACRsurf	Obliteration & AC Resurfacing
25	Temp wys	Temp Road Connection & Alignment
26	Undefined	Undefined level
27	Undefined	Undefined level
28	Undefined	Undefined level
29	Irrigation-Ex	Irrigation (Existing)
30	Cut and Fill	Cut & Fill
31	RW (exist)	ROW_Easement & Ownership Lines
32	RW Line_Fence	Right of Way Lines & Fences
33	RW Text	ROW Annotation
34	WPC Temp	Temp WPC & BMP
35	Erosion Cntrl	Permanent Erosion Control
36	Drainage	Drainage
37	Drain Anno	Drainage Annotation
38	San Sewer	Sanitary Sewer
39	SanSewer Anno	Sanitary Sewer Annotation
40	New Utility	(Includes Annotation)



41	ContourGrade	Contour Grading
42	Pave Elev	Pavement Elevations
43	Pave Marker	Pavement Markers & Striping
44	PaveMark Anno	Pavement Markers & Striping Anno
45	Signing	Signing
46	Const Signing	Construction Area Signing
47	Electrical	Electrical
48	Elect Anno	Electrical Annotation
49	Planting	Planting & Landscaping
50	IrrigationNew	Irrigation (New)
51	Stage 1	Stage 1 Const &Temp Traffic
52	Stage 1 Anno	Stage 1 Const &Temp Traffic Anno
53	Stage 2	Stage 2 Const &Temp Traffic
54	Stage 2 Anno	Stage 2 Const &Temp Traffic Anno
55	Stage 3	Stage 3 Const &Temp Traffic
56	Stage 3 Anno	Stage 3 Const &Temp Traffic Anno
57	Undefined	Undefined
58	Soundwalls	Soundwalls
59	Sndwall Anno	Soundwall Annotation
60	Nongeo Data	Nongeographical Drawing Data
61	HQ Changes	Headquarters Changes
62	AsBuilt Chng	As-Built Changes
63	Seal and Sig	Engr Seal & Signature
64	No_Plot	Data does not plot
65	No_Plot	Data does not plot
66	No_Plot	Data does not plot
67	No_Plot	Data does not plot
68	No_Plot	Data does not plot
69	No_Plot	Data does not plot
70	Plot_Shape	Plot shape for IPlot - DOES NOT PLOT
71	Survey Misc Breaklines	Survey misc breaklines
72	Survey Lines Point Data	Survey lines point data
73	Survey Point Data	Survey point data
74	Survey Boundary	Survey boundary
75	OTS Submittal	Stamp information
76	15% In Progress Submittal	Stamp information
77	15% Draft Submittal	Stamp information
78	15% Final Submittal	Stamp information
79	PEFP Draft Submittal	Stamp information
80	PEFP Final Submittal	Stamp information
81	Undefined	Undefined level
82	Undefined	Undefined level



02	Undefined	Undefined level
83	Undefined	Undefined level
84	Undefined	Undefined level
85	Undefined	Undefined level
86	Undefined	Undefined level
87	Undefined	Undefined level
88	Undefined	Undefined level
89	Undefined	Undefined level
90	Undefined	Undefined level
91	Undefined	Undefined level
92	Undefined	Undefined level
93	Undefined	Undefined level
94	Undefined	Undefined level
95	Undefined	Undefined level
96	Undefined	Undefined level
97	Undefined	Undefined level
98	Undefined	Undefined level
99	Undefined	Undefined level
100	Undefined	Undefined level
101	Undefined	Undefined level
102	Undefined	Undefined level
103	Undefined	Undefined level
104	Undefined	Undefined level
105	Undefined	Undefined level
106	Undefined	Undefined level
107	Undefined	Undefined level
108	Undefined	Undefined level
109	Appraisal Map	Appraisal Map Sheet Data
110	Sheet Format	(Includes North Arrow)
111	Reco Map	Reco Map Sheet Data
112	Undefined	Undefined level
113	Undefined	Undefined level
114	Undefined	Undefined level
115	Undefined	Undefined level
116	Undefined	Undefined level
117	Undefined	Undefined level
118	Undefined	Undefined level
119	Parcel Color	Parcel Color 19
120	Parcel Color	Parcel Color 20
121	Parcel Color	Parcel Color 21
122	Parcel Color	Parcel Color 22
123	Parcel Color	Parcel Color 23
124	Parcel Color	Parcel Color 24
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125	Parcel Color	Parcel Color 25
126	Parcel Color	Parcel Color 26
127	Parcel Color	Parcel Color 27
128	Exist Ease L	Exist Easement Linework
129	Exist Ease A	Exist Easement Annotation
130	Exist RW A	Existing RW Annotation
131	Exist RW L	Existing RW Linework
132	New RW L	New RW Linework
133	New RW A	New RW Annotation
134	New Ease L	New Easement Linework
135	New Ease A	New Easement Annotation
136	Temp Ease L	Temporary Easement Linework
137	Temp Ease A	Temporary Easement Annotation
138	Minor Land L	Minor Landnet Linework
139	Minor Land A	Minor Landnet Annotation
140	Major Land L	Major Landnet Linework
141	Major Land A	Major Landnet Annotation
142	PBndy FedPart	Political Bndy Fed Participation
143	JUA_CCUA	JUA_CCUA Linework & Annotation
144	Relinquishmt	Relinquishment Linework & Anno
145	DirectorsDeed	Directors Deed Linework & Anno
146	Vac_Abandon	Vacation_Abandonment Lines_Anno
147	LandnetPts-NP	Non-plotted Landnet Point Data
148	RW Pts - NP	Non-plotted RW Point Data
149	Points-Plot	Plotted Landnet & RW Point Data
150	Retracement L	Surveyors Retracement Linework
151	Retracement A	Surveyors Retracement Annotation
152	Retracement C	Surveyors Retracement Comments
153	Clip Boundary	Reference File Clip Boundaries
154	Plot Boundary	Sheet Bo er Plot Boundaries
155	UPRR RW	UPRR RW
156	BNSF RW	BNSF RW
157	Undefined	Undefined level
158	Undefined	Undefined level
159	Undefined	Undefined level
		Roadway/Grade Separation, Station, Systems
160	wy Sta Sys L	Linework
4.54	Cl. C. A	Roadway/Grade Separation, Station, Systems
161	wy Sta Sys A	Annotation Roadway/Grade Separation, Station, Systems
162	wy Sta Sys H	Hatching
163	wy Sta Sys NP	Roadway/Grade Separation, Station, Systems No Plot
103	Wy Sta Sys IVI	modernay, order separation, station, systems No Flot



164	Undefined	Undefined level
165	No Plot	Data does not plot
166	No Plot	Data does not plot  Data does not plot
167	No Plot	Data does not plot
168		· · · · · · · · · · · · · · · · · · ·
169	No_Plot	Data does not plot
	No_Plot	Data does not plot
170	Plot_Shape	Plot shape for IPlot - DOES NOT PLOT
171	Misc Map Annotation	Miscellaneous Map Annotation
172	Undefined	Undefined level
173	Undefined	Undefined level
174	Undefined	Undefined level
175	New RW L	New ROW Linework
176	New RW A	New ROW Annotation
177	New RW H	New ROW Hatching
178	New RW NP	New ROW No Plot
179	Undefined	Undefined level
180	New PSE L	New Permanent Surface Easement Linework
181	PSE A	New Permanent Surface Easement Annotation
182	PSE H	New Permanent Surface Easement Hatching
183	New PSE NP	New Permanent Surface Easement No Plot
184	Undefined	Undefined level
185	New PSSE L	New Permanent Sub-Surface Easement Linework
186	New PSSE A	New Permanent Sub-Surface Easement Annotation
187	New PSSE H	New Permanent Sub-Surface EasementHatching
188	New PSSE NP	New Permanent Sub-Surface Easement No Plot
189	Undefined	Undefined level
190	New AERIAL L	New Aerial Easement Linework
191	New AERIAL H	New Aerial Easement Hatching
192	New AERIAL A	New Aerial Easement Annotation
193	New AERIAL NP	New Aerial Easement No Plot
194	Undefined	Undefined level
195	TCE L	Temporary Construction Easement Linework
196	TCE A	Temporary Construction Easement Annotation
197	TCE H	Temporary Construction Easement Hatching
198	TCE NP	Temporary Construction Easement No Plot
199	Undefined	Undefined level
200	Undefined	Undefined level
201	Center and Station Line	Center/Station Line
202	Dropout	Drop Out
203	Dropout	Drop Out
204	Dropout	Drop Out
205	Dropout	Drop Out
	- 1	- P - 777



206	Dropout	Drop Out
207	Dropout	Drop Out
208	Dropout	Drop Out
209	Reserved for Dist	Reserved for Dist.
210	Bo er	Bo er
211	Undefined	Undefined level
212	Leaders and Dim Lines	Leaders and Dim Lines
213	Rebar	Rebar
214	Text and Titles	Text and Titles
215	Design Notes	Design Notes
216	Rebar	Rebar
217	Rebar	Rebar
218	Rebar	Rebar
219	Rebar	Rebar
220	Structural Steel	Structural Steel
221	Structural Steel	Structural Steel
222	Mics Steel	Misc Steel
223	Existing Steel	Existing Steel
224	Existing Steel	Existing Steel
225	Existing Steel	Existing Steel
228	Undefined	Undefined
229	Undefined	Undefined
230	Wood	Wood
231	Wood	Wood
232	Wood	Wood
233	Existing Wood	Existing Wood
234	Existing Wood	Existing Wood
235	Existing Wood	Existing Wood
236	Minor Contours	Minor Contours
237	Major Contours	Major Contours
238	Undefined	Undefined level
239	Undefined	Undefined level
240	Concrete	Concrete
241	Concrete	Concrete
242	Concrete	Concrete
243	Existing Concrete	Existing Concrete
244	Existing Concrete	Existing Concrete
245	Existing Concrete	Existing Concrete
246	Retaining Walls	Retaining Walls
247	Culvert	Culvert
248	Undefined	Undefined level
249	Undefined	Undefined level



250	Undefined	Undefined level
251	Masonry	Masonry
252	Bridge Data	Bridge Data
253	Undefined	Undefined level
254	Undefined	Undefined level
255	Undefined	Undefined level
256	Undefined	Undefined level
257	Ground Line	Ground Line
258	Bridge Staging	Bridge Staging
259	Undefined	Undefined level
260	Undefined	Undefined level
261	Reservered for OE	Reservered for OE
262	AS-BUILT CHANGES	AS-BUILT CHANGES
263	Engineers Seal Signature	Engineers Seal Signature
264	No_Plot	Data does not plot
265	No_Plot	Data does not plot
266	No_Plot	Data does not plot
267	No_Plot	Data does not plot
268	No_Plot	Data does not plot
269	No_Plot	Data does not plot
270	Plot_Shape	Plot shape for IPlot - DOES NOT PLOT
271	Tunnel-Membrane1	Tunnel-Membrane1
272	Tunnel-Membrane2	Tunnel-Membrane2
273	Tunnel-Membrane3	Tunnel-Membrane3
274	Tunnel-Rock bolt	Tunnel-Rock bolt
275	Tunnel-Cable Tieback	Tunnel-Cable Tieback
276	Tunnel-Precast Concrete	Tunnel-Precast Concrete
277	Tunnel-Tunnel-Shot-crete	Tunnel-Tunnel-Shot-crete
278	Tunnel-Fiber Reinforced Shot-crete	Tunnel-Fiber Reinforced Shot-crete
279	Tunnel-Welded wire fabric	Tunnel-Welded wire fabric
280	Tunnel-Mastic	Tunnel-Mastic
281	Tunnel-Grout	Tunnel-Grout
282	Tunnel-Cellular grout	Tunnel-Cellular grout
283	Tunnel-Segment seal	Tunnel-Segment seal
284	Tunnel-Rubber seal	Tunnel-Rubber seal
285	Tunnel-Pumps	Tunnel-Pumps
286	Tunnel-Liner plate	Tunnel-Liner plate
287	Tunnel-Rock Dowel	Tunnel-Rock Dowel
288	Tunnel-Outline	Tunnel-Outline
289	Portal Siteplan	Portal Siteplan
290	Tunnel-Site Area	Tunnel-Site Working Area
291	Tunnel-Veh Assmbly Area	Tunnel-Vehicle Assembly Area



292	Tunnel-Ped Pathway	Tunnel-Pedestrian Pathway
293	Tunnel-Vent Hood	Tunnel-Ventilation Hood
294	Tunnel-Helo Pad	Tunnel-Helicopter Pad
295	Tunnel Construction Pad	Tunnel Construction Pad
296	Spoils	Spoils
297	Spoils Haul	Spoils Haul
298	Spoils Tunnel	Spoils Tunnel
299	Environmental footprint	Environmental footprint
300	Undefined	Undefined level
226	Top-Toe of fill	Top-Toe of Fill
227	Pattern-crosshatching	Pattern-Crosshatching
301	Roadway	Roadway and Stationing
302	Dropout	Dropout Level
303	Dropout	Dropout Level
304	Dropout	Dropout Level
305	Dropout	Dropout Level
306	Dropout	Dropout Level
307	Dropout	Dropout Level
308	Dropout	Dropout Level
309	Dropout	Dropout Level
310	Sheet Bo er	Sheet Bo er information
311	Dropout	Dropout Level
312	Dimensions	Dimensioning
313	Text Misc	Miscellaneous Text
314	Text Std	Standard Text
315	Text Title	Title Block Text
316	Text No-Plot	Non-plotting Text
317	Ground 1	Ground
318	Ground 2	Ground
319	Concrete 1	Concrete
320	Concrete 2	Concrete
321	Concrete 3	Concrete
322	CMU 1	СМИ
323	CMU 2	СМИ
324	CMU 3	СМИ
325	Steel 1	Structural Steel
326	Steel 2	Steel
327	Steel 3	Steel
328	Metal Panels	Metal Panels
329	Metal Studs	Metal Studs
330	Metal Misc	Metal Miscellaneous
331	Wood 1	Wood
		•



332	Wood 2	Wood
333	Wood 3	Wood
334	Gypsum Boa	Gypsum Boa
335	Plywood	Plywood
336	Wall Finish 1	Wall Finish Material
337	Wall Finish 2	Wall Finish Material
338	Tile 1	Tile
339	Tile 2	Tile
340	Flooring 1	Flooring Material
341	Flooring 2	Flooring Material
342	Insulation	Insulation
343	Ceiling Grid	Reflected Ceiling Grid
344	Lighting Fixtures	Lighting Fixtures electrical
345	HVAC	Mechanical Equipment and Registers
346	Doors	Doors
347	Windows	Windows
348	Plumbing	Plumbing fixtures
349	Furniture	Furniture
350	Cabinets	Cabinetry
351	Hidden Line	Hidden Line
352	Line Above	Dashed Line
353	Center Line	Center Line
354	Misc Line Wt 0	Misc Line Wt=0
355	Misc Line	Misc Line Wt=1
356	Misc Line	Misc Line Wt=0
357	Misc Line	Misc Line Wt=0
358	Misc Line	Misc Line Wt=1
359	Misc Line	Misc Line Wt=2
360	Misc Line	Misc Line Wt=4
361	HQ Changes	Headquarters Changes
362	AsBuilts	As-Built Changes
363	OE Use Only	OE Use
364	No_Plot	Data does not plot
365	No_Plot	Data does not plot
366	No_Plot	Data does not plot
367	No_Plot	Data does not plot
368	No_Plot	Data does not plot
369	No_Plot	Data does not plot
370	Plot_Shape	Plot shape for IPlot - DOES NOT PLOT
371	A-CLNG	Ceiling
372	A-CLNG-OPNG	Ceiling: Openings
373	A-CLNG-SUSP	Ceiling: Suspended elements
I		



		T
374	Undefined	Undefined level
375	A-COLS	Columns
376	Undefined	Undefined level
377	A-EQPM	Equipment
378	A-EQPM-FIXD	Equipment: Fixed
379	A-EQPM-NINN	Equipment: Not in contract (N.I.C.)
380	A-EQPM-OVHD	Equipment: Overhead
381	Undefined	Undefined level
382	A-FLOR-HRAL	Floor:Handrails, gua rails
383	A-FLOR-LEVL	Floor: Level changes, ramps, pits, depressions
384	A-FLOR-OTLN	Floor: Outline
385	Undefined	Undefined level
386	Undefined	Undefined level
387	Undefined	Undefined level
388	Undefined	Undefined level
389	Undefined	Undefined level
390	Undefined	Undefined level
391	Undefined	Undefined level
392	Undefined	Undefined level
393	Undefined	Undefined level
394	Undefined	Undefined level
395	Undefined	Undefined level
396	Undefined	Undefined level
397	Undefined	Undefined level
398	Undefined	Undefined level
399	Undefined	Undefined level
400	Undefined	Undefined level
401	Sta Lines	Roadway and Stationing
402	Dropout	Dropout Level
403	Dropout	Dropout Level
404	Dropout	Dropout Level
405	Dropout	Dropout Level
406	Dropout	Dropout Level
407	Dropout	Dropout Level
408	Dropout	Dropout Level
409	Dropout	Dropout Level
410	Sheet Bo er	Sheet Bo er information
411	Dropout	Bo er Dropout Information
412	Dimensions	Dimensioning
413	Reinforcement Steel	Reinforcement Steel
414	Text Std	Text and Detail Notes
415	Design Notes	Design Notes



416	Misc Steel	Misc Steel (plates, studs, etc)
417	HSS	Hollow Structural Steel
417	Angle Iron	Angle Iron
419	Channel Beam	Steel Channels
419	Wide Flange	Steel Wide Flange
420	Misc Steel	Misc Steel (plates, studs, etc)
421	Cold Form Stl	Metal Wall Studs and Joists
423	Steel Grates	Steel Grates
423	Steel Decking	Structural Steel Decking
424	Conduit and Piping	Conduit and Piping
425	Elec Mech	, -
420	Plumb Elec	Electrical and Mechanical Equipment
427	Exist Elec Mech	Plumbing Diagrams Electric Schematics
		Existing Electric Mechanical Equip  Electrical and Mechanical
429 430	Elec Mech Wood 1	Wood Floor Framing or Loft
431	Wood 2 Wood 3	Wood Framing Coiling
432		Wood Laminated Booms
433	Wood 4	Wood Laminated Beams
434	Sheathing	Sheathing
435	Blocking 1	Blocking
436	Blocking 2	Blocking
437	Undefined	Undefined level
438	Undefined	Undefined level
439	Undefined	Undefined level
440	Conc Slab Wall	Concrete Slab or Walls
441	Conc Footing	Concrete Footings
442	Conc Pile	Concrete Piles
443	Conc Col	Concrete Columns
444	Conc Masonry	Concrete Masonry
445	Conc Pattern	Concrete Pattern
446	Original Ground	Original Ground
447	Sand	Sand Pattern
448	Aggregate	Free Draining Granular Material
449	Undefined	Undefined level
450	Undefined	Undefined level
451	Undefined	Undefined level
452	Undefined	Undefined level
453	Undefined	Undefined level
454	Undefined	Undefined level
455	Undefined	Undefined level
456	Undefined	Undefined level
457	Undefined	Undefined level



458	Undefined	Undefined level
458	Plot	Reserved For Special Plot
460	UBC Code	Non Plotting Text
461	HQ Changes	Headquarters Changes
462	AsBuilts	As-Built Changes
463	OE Use Only	OE Use
464	No_Plot	Data does not plot
465	No_Plot	Data does not plot
466	No Plot	Data does not plot
467	No_Plot	Data does not plot
468	No_Plot	Data does not plot
469	No_Plot	Data does not plot
470	Plot Shape	Plot shape for IPlot - DOES NOT PLOT
470	Undefined	Undefined level
471	Undefined	Undefined level
473	Undefined	Undefined level
474	Undefined	Undefined level
475	Undefined	Undefined level
476	Undefined	Undefined level
477	Undefined	Undefined level
478	Undefined	Undefined level
479	Undefined	Undefined level
480	Undefined	Undefined level
481	Undefined	Undefined level
482	Undefined	Undefined level
483	Undefined	Undefined level
484	Undefined	Undefined level
485	Undefined	Undefined level
486	Undefined	Undefined level
487	Undefined	Undefined level
488	Undefined	Undefined level
489	Undefined	Undefined level
490	Undefined	Undefined level
491	Undefined	Undefined level
492	Undefined	Undefined level
493	Undefined	Undefined level
494	Undefined	Undefined level
495	Undefined	Undefined level
496	Undefined	Undefined level
497	Undefined	Undefined level
498	Undefined	Undefined level
499	Undefined	Undefined level



500	Undefined	Undefined level
501	Sta Lines	Roadway and Stationing
502	(E) Building Outline	Existing Building Outline
503	(E) Fixtures and Equipment	(E) Fixt./Equipment
504	Dropout	Dropout Level
505	Dropout	Dropout Level
506	Dropout	Dropout Level
507	Dropout	Dropout Level
508	Dropout	Dropout Level
509	Dropout	Dropout Level
510	Sheet Bo er	Sheet Border information
511	Dropout	Border Dropout Information
512	Dimensions	Dimensioning
513	Reinforcement Steel	Reinforcement Steel
514	Text Std	Text and Detail Notes
515	Design Notes	Design Notes
516	Misc Steel	Misc Steel (plates, studs, etc)
517	HSS	Hollow Structural Steel
518	Angle Iron	Angle Iron
519	Channel Beam	Steel Channels
520	Wide Flange	Steel Wide Flange
521	Misc Steel	Misc Steel (plates, studs, etc)
522	Cold Form Steel	Metal Wall Studs and Joists
523	Steel Grates	Steel Grates
524	Steel Decking	Structural Steel Decking
525	Conduit and Piping	Conduit and Piping
526	Elec Mech	Electrical and Mechanical Equipment
527	Plumb Elec	Plumbing Diagrams Electric Schematics
528	Exist Elec Mech	Existing Electric Mechanical Equip
529	Plumb Mech	Plumbing Diagrams Mech Schematics
530	Wood 1	Wood Floor Framing or Loft
531	Wood 2	Wood Wall Framing
532	Wood 3	Wood Framing Ceiling
533	Wood 4	Wood Laminated Beams
534	Sheathing	Sheathing
535	Blocking 1	Blocking
536	Blocking 2	Blocking
537	Supply Air	Supply Air Duct HVAC
538	Return Air	Return Air Duct HVAC
539	Exhaust Air	Exhaust Air Duct HVAC
540	Conc Slab	Concrete Slab or Walls
541	Conc Footing	Concrete Footings



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542	Conc Pile	Concrete Piles
543	Conc Column	Concrete Columns
544	Conc Masonry	Concrete Masonry
545	Conc Pattern	Concrete Pattern
546	Original Ground	Original Ground
547	Sand	Sand Pattern
548	Aggregate	Free Draining Granular Material
549	Cold Water	Cold Water (tees, elbows, unions, & valves)
550	Hot Water	Hot Water (tees, elbows, unions, & valves)
551	Sewer Line	Sewer Line (ptraps, cleanouts, & floor drains)
552	Fire Service	Fire Protection Water Service Line
553	Air Line	Compressed Air Line
554	Vent Line	Sewer Vent Lines
555	Gas Line	Gas Service Line (NG, LPG)
556	Drain Line	Drain Line (rood, trench drains, & condensate)
557	Relief Line	Relief Line (water heater relief line)
558	Mech Equipment	Mechanical Fixtures/Equipment
559	Undefined	Undefined
560	UBC Code	Non Plotting Text
561	HQ Changes	Headquarters Changes
562	AsBuilts	As-Built Changes
563	OE Use Only	OE Use
564	No_Plot	Data does not plot
565	No_Plot	Data does not plot
566	No_Plot	Data does not plot
567	No_Plot	Data does not plot
568	No_Plot	Data does not plot
569	No_Plot	Data does not plot
570	Plot_Shape	Plot shape for IPlot - DOES NOT PLOT
571	Undefined	Undefined level
572	Undefined	Undefined level
573	Undefined	Undefined level
574	Undefined	Undefined level
575	Undefined	Undefined level
576	Undefined	Undefined level
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584	Undefined	Undefined level
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595	Undefined	Undefined level
596	Undefined	Undefined level
597	Undefined	Undefined level
598	Undefined	Undefined level
599	Undefined	Undefined level
600	Undefined	Undefined level
601	Sta Lines	Roadway and Stationing
602	Dropout	Dropout Level
603	Dropout	Dropout Level
604	Dropout	Dropout Level
605	Dropout	Dropout Level
606	Dropout	Dropout Level
607	Dropout	Dropout Level
608	Dropout	Dropout Level
609	Dropout	Dropout Level
610	Sheet Bo er	Sheet Border information
611	Dropout	Border Dropout Information
612	Dimensions	Dimensioning
613	Reinforcement Steel	Reinforcement Steel
614	Text Std	Text and Detail Notes
615	Design Notes	Design Notes
616	Misc Steel	Misc Steel (plates, studs, etc)
617	HSS	Hollow Structural Steel
618	Angle Iron	Angle Iron
619	Channel Beam	Steel Channels
620	Wide Flange	Steel Wide Flange
621	Misc Steel	Misc Steel (plates, studs, etc)
622	Cold Form Steel	Metal Wall Studs and Joists
623	Steel Grates	Steel Grates
624	Steel Decking	Structural Steel Decking
625	Conduit and Piping	Conduit and Piping
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626	Elec Mech	Electrical and Mechanical Equipment
627	Plumb Elec	Plumbing Diagrams, Electric Schematics
628	Exist Elec Mech	Existing Electric Mechanical Equip
629	Elec Mech	Electrical and Mechanical Misc Level
630	Wood 1	Wood Floor Framing or Loft
631	Wood 2	Wood Wall Framing
632	Wood 3	Wood Framing Ceiling
633	Wood 4	Wood Laminated Beams
634	Sheathing	Sheathing
635	Blocking 1	Blocking
636	Blocking 2	Blocking
637	Undefined	Undefined level
638	Undefined	Undefined level
639	Undefined	Undefined level
640	Conc Slab	Concrete Slab or Walls
641	Conc Footing	Concrete Footings
642	Conc Pile	Concrete Piles
643	Conc Column	Concrete Columns
644	Conc Masonry	Concrete Masonry
645	Conc Pattern	Concrete Pattern
646	Original Ground	Original Ground
647	Sand	Sand Pattern
648	Aggregate	Free Draining Granular Material
649	Sewage Pipe	Sewage Pipe
650	Drain + Vent	Drain + Vent
651	Potable Water	Potable Water
652	Raw Water	Raw Water
653	Leach Line	Leach Line
654	Pumps and Valves	Pumps & Valves
655	Tanks	Tanks
656	Equipment Below	Equipment Below
657	Equipment Above	Equipment Above
658	Wells	Wells
659	Plot	Reserved For Special Plot
660	UBC Code	Non Plotting Text
661	HQ Changes	Headquarters Changes
662	AsBuilts	As-Built Changes
663	OE Use Only	OE Use
664	No_Plot	Data does not plot
665	No_Plot	Data does not plot
666	No_Plot	Data does not plot
667	No_Plot	Data does not plot



660	N 01 :	
668	No_Plot	Data does not plot
669	No_Plot	Data does not plot
670	Plot_Shape	Plot shape for IPlot - DOES NOT PLOT
671	Undefined	Undefined level
672	Undefined	Undefined level
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696	Undefined	Undefined level
697	Undefined	Undefined level
698	Undefined	Undefined level
699	Undefined	Undefined level
700	Undefined	Undefined level
701	Sta Lines	Roadway and Stationing
702	Dropout	Dropout Level
703	Dropout	Dropout Level
704	Dropout	Dropout Level
705	Dropout	Dropout Level
706	Dropout	Dropout Level
707	Dropout	Dropout Level
708	Dropout	Dropout Level
709	Dropout	Dropout Level



710	Sheet Bo er	Sheet Border information
711	Dropout	Border Dropout Information
712	Dimensions	Dimensioning
713	Reinforcement Steel	Reinforcement Steel
714	Text Std	Text and Detail Notes
715	Design Notes	Design Notes
716	Misc Steel	Misc Steel (plates, studs, etc)
717	HSS	Hollow Structural Steel
718	Angle Iron	Angle Iron
719	Channel Beam	Steel Channels
720	Wide Flange	Steel Wide Flange
721	Misc Steel	Misc Steel (plates, studs, etc)
722	Cold Form Steel	Metal Wall Studs and Joists
723	Steel Grates	Steel Grates
724	Steel Decking	Structural Steel Decking
725	Conduit and Piping	Conduit and Piping
726	Elec Mech	Electrical and Mechanical Equipment
727	Plumb Elec	Plumbing Diagrams, Electric Schematics
728	Exist Elec Mech	Existing Electric Mechanical Equip
729	Elec Mech	Electrical and Mechanical Misc Level
730	Wood 1	Wood Floor Framing or Loft
731	Wood 2	Wood Wall Framing
732	Wood 3	Wood Framing Ceiling
733	Wood 4	Wood Laminated Beams
734	Sheathing	Sheathing
735	Blocking 1	Blocking
736	Blocking 2	Blocking
737	Undefined	Undefined level
738	Undefined	Undefined level
739	Undefined	Undefined level
740	Conc Slab	Concrete Slab or Walls
741	Conc Footing	Concrete Footings
742	Conc Pile	Concrete Piles
743	Conc Column	Concrete Columns
744	Conc Masonry	Concrete Masonry
745	Conc Pattern	Concrete Pattern
746	Original Ground	Original Ground
747	Sand	Sand Pattern
748	Aggregate	Free Draining Granular Material
749	Sewage Pipe	Sewage Pipe
750	Drain + Vent	Drain + Vent
751	Potable Water	Potable Water



750	D. Maria	D. William
752	Raw Water	Raw Water
753	Leach Line	Leach Line
754	Pumps and Valves	Pumps & Valves
755	Tanks	Tanks
756	Equipment Below	Equipment Below
757	Equipment Above	Equipment Above
758	Wells	Wells
759	Plot	Reserved For Special Plot
760	UBC Code	Non Plotting Text
761	HQ Changes	Headquarters Changes
762	AsBuilts	As-Built Changes
763	OE Use Only	OE Use
764	No_Plot	Data does not plot
765	No_Plot	Data does not plot
766	No_Plot	Data does not plot
767	No_Plot	Data does not plot
768	No_Plot	Data does not plot
769	No_Plot	Data does not plot
770	Plot_Shape	Plot shape for IPlot - DOES NOT PLOT
771	Undefined	Undefined level
772	Undefined	Undefined level
773	Undefined	Undefined level
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775	Undefined	Undefined level
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783	Undefined	Undefined level
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786	Undefined	Undefined level
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789	Undefined	Undefined level
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792	Undefined	Undefined level
793	Undefined	Undefined level



794	Undefined	Undefined level
795	Undefined	Undefined level
796	Undefined	Undefined level
797	Undefined	Undefined level
798	Undefined	Undefined level
799	Undefined	Undefined level
800	Undefined	Undefined level
801	Undefined	Undefined level
802	Dropout	Dropout
803	Dropout	Dropout
804	Dropout	Dropout
805	Dropout	Dropout
806	Dropout	Dropout
807	Dropout	Dropout
808	Dropout	Dropout
809	Dropout	Dropout
810	Undefined	Undefined level
811	Undefined	Undefined level
812	ut-elec-p	ut-elec-p
813	ut-elec-x	ut-elec-x
814	ut-gas-p	ut-gas-p
815	ut-gas-x	ut-gas-x
816	ut-natgas-p	ut-natgas-p
817	ut-natgas-x	ut-natgas-x
818	ut-oil-p	ut-oil-p
819	ut-oil-x	ut-oil-x
820	ut-sewer-p	ut-sewer-p
821	ut-sewer-x	ut-sewer-x
822	ut-steam-p	ut-steam-p
823	ut-steam-x	ut-steam-x
824	ut-stormD-p	ut-stormD-p
825	ut-stormD-x	ut-stormD-x
826	ut-telecom-p	ut-telecom-p
827	ut-telecom-x	ut-telecom-x
828	ut-teleph-p	ut-teleph-p
829	ut-teleph-x	ut-teleph-x
830	ut-tv-p	ut-tv-p
831	ut-tv-x	ut-tv-x
832	ut-water-p	ut-water-p
833	ut-water-x	ut-water-x
834	tr-fiberopt-p	tr-fiberopt-p
835	tr-fiberopt-x	tr-fiberopt-x



836       ut-elec-oh-p       ut-elec-oh-p         837       ut-elec-oh-x       ut-elec-oh-x         838       ut-telecom-oh-p       ut-telecom-oh-p         839       ut-telecom-oh-x       ut-telep-oh-x         840       ut-telep-oh-p       ut-telep-oh-p         841       ut-telep-oh-x       ut-telep-oh-x         842       ut-tv-oh-p       ut-tv-oh-p         843       ut-tv-oh-x       ut-tv-oh-x	
838       ut-telecom-oh-p       ut-telecom-oh-p         839       ut-telecom-oh-x       ut-telecom-oh-x         840       ut-telep-oh-p       ut-telep-oh-p         841       ut-telep-oh-x       ut-telep-oh-x         842       ut-tv-oh-p       ut-tv-oh-p         843       ut-tv-oh-x       ut-tv-oh-x	
839       ut-telecom-oh-x       ut-telecom-oh-x         840       ut-telep-oh-p       ut-telep-oh-p         841       ut-telep-oh-x       ut-telep-oh-x         842       ut-tv-oh-p       ut-tv-oh-p         843       ut-tv-oh-x       ut-tv-oh-x	
840       ut-telep-oh-p         841       ut-telep-oh-x         842       ut-tv-oh-p         843       ut-tv-oh-x	
841       ut-telep-oh-x         842       ut-tv-oh-p         843       ut-tv-oh-x             ut-tv-oh-x	
842 ut-tv-oh-p ut-tv-oh-p 843 ut-tv-oh-x ut-tv-oh-x	
843 ut-tv-oh-x ut-tv-oh-x	
844 ut-fiberopt-oh-p ut-fiberopt-oh-p	
845 ut-fiberopt-oh-x ut-fiberopt-oh-x	
846 Undefined Undefined level	
847 Undefined Undefined level	
848 Undefined Undefined level	
849 Undefined Undefined level	
850   850 Staging-Overall Outline	
851 851 Staging-Area Layout	
852 Staging-Road Close	
853 Undefined Undefined level	
854 Undefined Undefined level	
855 Undefined Undefined level	
856 Undefined Undefined level	
857 Undefined Undefined level	
858 Undefined Undefined level	
859 Undefined Undefined level	
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861 Undefined Undefined level	
862 Undefined Undefined level	
863 Undefined Undefined level	
864 No_Plot Data does not plot	
865 No_Plot Data does not plot	
866 No_Plot Data does not plot	
867 No_Plot Data does not plot	
868 No_Plot Data does not plot	
869 No_Plot Data does not plot	
870 Plot_Shape Plot shape for IPlot - DOES NOT PLOT	
871 Staging Dropout Staging Dropout	
872 Staging Dropout Staging Dropout	
873 Staging Dropout Staging Dropout	
874 Staging Dropout Staging Dropout	
875 Staging Dropout Staging Dropout	
876 Staging Dropout Staging Dropout	
877 Staging Dropout Staging Dropout	



878 Staging Dropout 879 Staging Dropout 879 Staging Dropout 880 Staging Dropout 881 Staging Dropout 882 Staging Dropout 882 Staging Dropout 883 Staging Dropout 884 Staging Dropout 885 Staging Dropout 885 Staging Dropout 886 Staging Dropout 887 Staging Dropout 888 Staging Dropout 888 Staging Dropout 889 Staging Dropout 880 Staging Dropout 880 Staging Dropout 880 Staging Dropout 881 Staging Dropout 882 Staging Dropout 883 Staging Dropout 884 Staging Dropout 885 Staging Dropout 886 Staging Dropout 887 Staging Dropout 888 Staging Dropout 889 Striping Dropout 889 Striping Dropout 889 Striping Dropout 880 Striping Dropout 880 Striping Dropout 881 Striping Dropout 882 Striping Dropout 883 Striping Dropout 884 Striping Dropout 885 Striping Dropout 886 Miscellaneous Dropout 887 Miscellaneous Dropout 888 Miscellaneous Dropout 889 Miscellaneous Dropout			
880 Staging Dropout Staging Dropout 881 Staging Dropout Staging Dropout 882 Staging Dropout Staging Dropout 883 Staging Dropout Staging Dropout 884 Staging Dropout Staging Dropout 885 Staging Dropout Staging Dropout 886 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 880 Staging Dropout Staging Dropout 880 Staging Dropout Staging Dropout 881 Staging Dropout Staging Dropout 882 Staging Dropout Staging Dropout 883 Staging Dropout Striping Dropout 884 Striping Dropout Striping Dropout 885 Striping Dropout Striping Dropout 886 Striping Dropout Striping Dropout 887 Striping Dropout Striping Dropout 888 Striping Dropout Striping Dropout 889 Striping Dropout Striping Dropout 889 Miscellaneous Dropout Miscellaneous Dropout 889 Miscellaneous Dropout Miscellaneous Dropout 889 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout Miscellaneous Dropout 891 Miscellaneous Dropout Miscellaneous Dropout 892 Miscellaneous Dropout Miscellaneous Dropout 893 Miscellaneous Dropout Miscellaneous Dropout 894 Miscellaneous Dropout Miscellaneous Dropout 895 Miscellaneous Dropout Miscellaneous Dropout 896 Miscellaneous Dropout Miscellaneous Dropout 897 Miscellaneous Dropout Miscellaneous Dropout 898 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 900 Miscellaneous Dropout Miscellaneous Dropout 901 Control A Layout Lines Center Lines 902 Control B Layout Lines Center Lines 903 Bar Chart A Rebar Bar Chart Graphics 904 Bar Chart B Rebar Bar Chart Graphics 905 Bar Chart D Rebar Bar Chart Graphics 906 Bar Chart D Rebar Bar Chart Graphics 907 Undefined Undefined level 908 Undefined Undefined level 909 Bentley Source Bentley Supplied Content 900 Undefined Undefined level 901 Sheet Format Bo er Contents(Includes North Arrow) 911 Hatching Warning Marriang	878	Staging Dropout	Staging Dropout
881 Staging Dropout Staging Dropout 882 Staging Dropout Staging Dropout 883 Staging Dropout Staging Dropout 884 Staging Dropout Staging Dropout 885 Staging Dropout Staging Dropout 885 Staging Dropout Staging Dropout 886 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 890 Staging Dropout Staging Dropout 891 Striping Dropout Striping Dropout 892 Striping Dropout Striping Dropout 893 Striping Dropout Striping Dropout 894 Striping Dropout Striping Dropout 895 Striping Dropout Striping Dropout 896 Miscellaneous Dropout Miscellaneous Dropout 897 Miscellaneous Dropout Miscellaneous Dropout 898 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout Miscellaneous Dropout 891 Control A Layout Lines Center Lines 902 Control B Layout Lines Center Lines 903 Bar Chart A Rebar Bar Chart Graphics 904 Bar Chart B Rebar Bar Chart Graphics 905 Bar Chart C Rebar Bar Chart Content 906 Bar Chart D Rebar Bar Chart Content 907 Undefined Undefined level 908 Bentley Source Bentley Supplied Content 909 Bentley Source Bentley Supplied Content 900 Sheet Format Bo er Contents(Includes North Arrow) 911 Hatching Various Patterns 912 Dimensions Dim Lines & Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement Top Layer 916 Reinf Top A Reinforcement Top Layer	879	Staging Dropout	Staging Dropout
882 Staging Dropout Staging Dropout 884 Staging Dropout Staging Dropout 885 Staging Dropout Staging Dropout 886 Staging Dropout Staging Dropout 886 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 890 Staging Dropout Staging Dropout 891 Striping Dropout Staging Dropout 892 Striping Dropout Striping Dropout 893 Striping Dropout Striping Dropout 894 Striping Dropout Striping Dropout 895 Striping Dropout Striping Dropout 896 Miscellaneous Dropout Striping Dropout 897 Striping Dropout Striping Dropout 898 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout Miscellaneous Dropout 891 Miscellaneous Dropout Miscellaneous Dropout 892 Ochrol A Layout Lines Center Lines 893 Bar Chart A Rebar Bar Chart Graphics 894 Bar Chart B Rebar Bar Chart Graphics 895 Bar Chart C Rebar Bar Chart Content 896 Bar Chart C Rebar Bar Chart Content 897 Undefined Undefined level 898 Undefined Undefined level 899 Bentley Source Bentley Supplied Content 900 Sheet Format B Ord Undefined Powl 901 Dimensions Dim Lines & Arrows 902 Dimensions Dim Lines & Arrows 903 Marnings Warnings Warning Messages 904 Text Notes Leaders & Arrows 905 Reinf (Default) Reinforcement Top Layer 906 Reinforcement Top Layer 907 Reinf Top C Reinforcement Top Layer	880	Staging Dropout	Staging Dropout
883 Staging Dropout Staging Dropout 884 Staging Dropout Staging Dropout 885 Staging Dropout Staging Dropout 886 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 880 Staging Dropout Staging Dropout 880 Staging Dropout Staging Dropout 881 Striping Dropout Striping Dropout 881 Striping Dropout Striping Dropout 882 Striping Dropout Striping Dropout 883 Striping Dropout Striping Dropout 883 Striping Dropout Striping Dropout 884 Striping Dropout Striping Dropout 885 Striping Dropout Striping Dropout 886 Miscellaneous Dropout Miscellaneous Dropout 887 Miscellaneous Dropout Miscellaneous Dropout 888 Miscellaneous Dropout Miscellaneous Dropout 889 Miscellaneous Dropout Miscellaneous Dropout 889 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout Miscellaneous Dropout 891 Control A Layout Lines Center Lines 902 Control B Layout Lines Center Lines 903 Bar Chart A Rebar Bar Chart Graphics 904 Bar Chart B Rebar Bar Chart Graphics 905 Bar Chart C Rebar Bar Chart Content 906 Bar Chart D Rebar Bar Chart Content 907 Undefined Undefined level 908 Undefined Undefined level 909 Bentley Source Bentley Supplied Content 900 Sheet Format Bo er Contents(Includes North Arrow) 901 Hatching Various Patterns 902 Dimensions Dim Lines & Arrows 903 Warnings Warning Messages 904 Text Notes Leaders & Arrows 905 Reinf Top A Reinforcement Top Layer 907 Reinf Top B Reinforcement Top Layer	881	Staging Dropout	Staging Dropout
884         Staging Dropout         Staging Dropout           885         Staging Dropout         Staging Dropout           886         Staging Dropout         Staging Dropout           887         Staging Dropout         Staging Dropout           889         Staging Dropout         Staging Dropout           890         Staging Dropout         Staging Dropout           891         Striping Dropout         Striping Dropout           892         Striping Dropout         Striping Dropout           893         Striping Dropout         Striping Dropout           894         Striping Dropout         Striping Dropout           895         Striping Dropout         Striping Dropout           896         Miscellaneous Dropout         Miscellaneous Dropout           897         Miscellaneous Dropout         Miscellaneous Dropout           898         Miscellaneous Dropout         Miscellaneous Dropout           899         Miscellaneous Dropout         Miscellaneous Dropout           890         Miscellaneous Dropout         Miscellaneous Dropout           901         Control A         Layout Lines Center Lines           902         Control B         Layout Lines Center Lines           903         Bar Chart A	882	Staging Dropout	Staging Dropout
885 Staging Dropout Staging Dropout 886 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 880 Staging Dropout Staging Dropout 880 Staging Dropout Staging Dropout 881 Staging Dropout Staging Dropout 882 Striping Dropout Striping Dropout 883 Striping Dropout Striping Dropout 884 Striping Dropout Striping Dropout 885 Striping Dropout Striping Dropout 885 Striping Dropout Striping Dropout 886 Striping Dropout Striping Dropout 887 Striping Dropout Striping Dropout 888 Miscellaneous Dropout Miscellaneous Dropout 889 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout Miscellaneous Dropout 891 Control A Layout Lines Center Lines 890 Mar Chart A Rebar Bar Chart Graphics 890 Bar Chart A Rebar Bar Chart Graphics 890 Bar Chart C Rebar Bar Chart Graphics 890 Bar Chart C Rebar Bar Chart Content 890 Bar Chart D Rebar Bar Chart Content 890 Undefined Undefined level 890 Undefined Undefined level 890 Bentley Source Bentley Supplied Content 891 Sheet Format Bo er Contents(Includes North Arrow) 891 Warnings Warnings Warning Messages 891 Text Notes Leaders & Arrows 891 Warnings Reinf (Default) 891 Reinf Top A Reinforcement Top Layer 891 Reinf Top C Reinforcement Top Layer	883	Staging Dropout	Staging Dropout
886 Staging Dropout Staging Dropout 887 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 890 Staging Dropout Staging Dropout 891 Striping Dropout Striping Dropout 892 Striping Dropout Striping Dropout 893 Striping Dropout Striping Dropout 894 Striping Dropout Striping Dropout 895 Striping Dropout Striping Dropout 896 Miscellaneous Dropout Striping Dropout 897 Miscellaneous Dropout Miscellaneous Dropout 898 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout Miscellaneous Dropout 891 Control A Layout Lines Center Lines 892 Control B Layout Lines Center Lines 893 Bar Chart A Rebar Bar Chart Graphics 894 Bar Chart B Rebar Bar Chart Graphics 895 Bar Chart C Rebar Bar Chart Content 896 Bar Chart D Rebar Bar Chart Content 897 Undefined Undefined level 898 Undefined Undefined level 899 Bentley Source Bentley Supplied Content 890 Sheet Format Boer Contents (Includes North Arrow) 891 Marnings Warning Messages 891 Text Notes Leaders & Arrows 891 Marin Fop A Reinforcement Top Layer 891 Reinf Top B Reinforcement Top Layer	884	Staging Dropout	Staging Dropout
887 Staging Dropout Staging Dropout 888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 890 Staging Dropout Staging Dropout 891 Striping Dropout Striping Dropout 892 Striping Dropout Striping Dropout 893 Striping Dropout Striping Dropout 894 Striping Dropout Striping Dropout 895 Striping Dropout Striping Dropout 896 Miscellaneous Dropout Striping Dropout 897 Miscellaneous Dropout Miscellaneous Dropout 898 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout Miscellaneous Dropout 891 Miscellaneous Dropout Miscellaneous Dropout 892 Control A Layout Lines Center Lines 903 Dear Chart A Rebar Bar Chart Graphics 904 Bar Chart B Rebar Bar Chart Graphics 905 Bar Chart C Rebar Bar Chart Content 906 Bar Chart D Rebar Bar Chart Content 907 Undefined Undefined level 908 Undefined Undefined level 909 Bentley Source Bentley Supplied Content 910 Sheet Format B Bo er Contents(Includes North Arrow) 911 Hatching Various Patterns 912 Dimensions Dim Lines &Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement Top Layer 917 Reinf Top A Reinforcement Top Layer	885	Staging Dropout	Staging Dropout
888 Staging Dropout Staging Dropout 889 Staging Dropout Staging Dropout 890 Staging Dropout Staging Dropout 891 Striping Dropout Striping Dropout 892 Striping Dropout Striping Dropout 893 Striping Dropout Striping Dropout 894 Striping Dropout Striping Dropout 895 Striping Dropout Striping Dropout 896 Striping Dropout Striping Dropout 897 Miscellaneous Dropout Miscellaneous Dropout 898 Miscellaneous Dropout Miscellaneous Dropout 899 Miscellaneous Dropout Miscellaneous Dropout 890 Miscellaneous Dropout 890 Miscellaneous Dropout 891 Control A Layout Lines Center Lines 892 Control B Layout Lines Center Lines 893 Bar Chart A Rebar Bar Chart Graphics 894 Bar Chart B Rebar Bar Chart Graphics 895 Bar Chart C Rebar Bar Chart Gortent 896 Bar Chart D Rebar Bar Chart Content 897 Undefined Undefined level 898 Undefined Undefined level 899 Bentley Source Bentley Supplied Content 890 Bentley Source Bentley Supplied Content 891 Sheet Format Bo er Contents(Includes North Arrow) 891 Hatching Various Patterns 891 Warnings Warning Messages 891 Text Notes Leaders & Arrows 891 Reinf (Default) Reinforcement (Default) 891 Reinf Top A Reinforcement Top Layer 891 Reinf Top C Reinforcement Top Layer	886	Staging Dropout	Staging Dropout
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900 Miscellaneous Dropout 901 Control A 902 Control B 903 Bar Chart A 904 Rebar Bar Chart Graphics 905 Bar Chart C 906 Bar Chart D 907 Undefined 908 Undefined 909 Bentley Source 909 Bentley Source 910 Sheet Format 911 Hatching 912 Dimensions 913 Warnings 914 Text 916 Reinf Top A 917 Reinf Top B 918 Reinf Top C 918 Reivar Bar Chart C 910 Resear Bar Chart Content 910 Repar Bar Chart Content 910 Sheet Format 911 Hatching 912 Dimensions 913 Warnings 914 Text 915 Reinf Top B 916 Reinf Top C 916 Reinforcement Top Layer 917 Reinf Top C	898	Miscellaneous Dropout	Miscellaneous Dropout
901 Control A Layout Lines Center Lines 902 Control B Layout Lines Center Lines 903 Bar Chart A Rebar Bar Chart Graphics 904 Bar Chart B Rebar Bar Chart Graphics 905 Bar Chart C Rebar Bar Chart Content 906 Bar Chart D Rebar Bar Chart Content 907 Undefined Undefined level 908 Undefined Undefined level 909 Bentley Source Bentley Supplied Content 910 Sheet Format Bo er Contents(Includes North Arrow) 911 Hatching Various Patterns 912 Dimensions Dim Lines & Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top C Reinforcement Top Layer	899	Miscellaneous Dropout	Miscellaneous Dropout
902 Control B  903 Bar Chart A  Rebar Bar Chart Graphics  904 Bar Chart B  905 Bar Chart C  906 Bar Chart D  907 Undefined  908 Undefined  909 Bentley Source  910 Sheet Format  911 Hatching  912 Dimensions  913 Warnings  914 Text  916 Reinf Top A  Rebar Bar Chart Lontent  Layout Lines Center Lines  Rebar Bar Chart Graphics  Rebar Bar Chart Content  910 Undefined level  911 Undefined Undefined level  922 Bentley Supplied Content  933 Bentley Supplied Content  944 Text  955 Reinf (Default)  966 Reinf Top A  967 Reinforcement Top Layer  968 Reinforcement Top Layer  969 Reinforcement Top Layer  970 Reinforcement Top Layer  971 Reinforcement Top Layer	900	Miscellaneous Dropout	Miscellaneous Dropout
903 Bar Chart A  904 Bar Chart B  905 Bar Chart C  906 Bar Chart D  907 Undefined  908 Undefined  909 Bentley Source  910 Sheet Format  911 Hatching  912 Dimensions  913 Warnings  914 Text  915 Reinf (Default)  916 Reinf Top A  818 Rebar Bar Chart Graphics  82 Rebar Bar Chart Content  917 Reinf Top B  92 Rebar Bar Chart Content  93 Rebar Bar Chart Content  94 Rebar Bar Chart Content  95 Rebar Bar Chart Content  96 Rebar Bar Chart Content  96 Rebar Bar Chart Graphics  97 Reinf Top C  98 Rebar Bar Chart Graphics  98 Rebar Bar Chart Graphics  98 Rebar Bar Chart Graphics  99 Rebar Bar Chart Graphics  90 Rebar Bar Chart Content  910 Rebar Ba	901	Control A	Layout Lines Center Lines
904 Bar Chart B 905 Bar Chart C Rebar Bar Chart Content 906 Bar Chart D Rebar Bar Chart Content 907 Undefined Undefined level 908 Undefined 909 Bentley Source 910 Sheet Format 911 Hatching 912 Dimensions 913 Warnings 914 Text Notes Leaders & Arrows 915 Reinf (Default) 916 Reinf Top A Rebar Bar Chart Graphics Undefined Undefined level Undefined level Undefined level Sentley Supplied Content Bart Graphics North Arrow) Various Patterns Various Patterns Reinforces & Arrows Reinforcement Clefault) Reinforcement Top Layer Reinforcement Top Layer Reinforcement Top Layer	902	Control B	Layout Lines Center Lines
905 Bar Chart C 906 Bar Chart D Rebar Bar Chart Content 907 Undefined 908 Undefined 909 Bentley Source 910 Sheet Format 911 Hatching 912 Dimensions 913 Warnings 914 Text 915 Reinf (Default) 916 Reinf Top A 8 Reinforcement Top Layer 917 Reinf Top C 8 Rebar Bar Chart Content 910 Rebar Bar Chart Content 911 Undefined level 912 Undefined level 913 Bentley Supplied Content 914 Various Patterns 915 Warning Messages 916 Reinf Top A 917 Reinforcement (Default) 918 Reinforcement Top Layer	903	Bar Chart A	Rebar Bar Chart Graphics
906 Bar Chart D  907 Undefined  908 Undefined  909 Bentley Source  910 Sheet Format  911 Hatching  912 Dimensions  913 Warnings  914 Text  915 Reinf (Default)  916 Reinf Top A  917 Reinf Top B  918 Reinf Top C  908 Undefined  919 Undefined level  910 Undefined level  910 Bentley Supplied Content  910 Bentley Supplied Content  911 Bentley Supplied Content  912 Dimensions  913 Various Patterns  914 Dimensions  915 Dimensions  916 Reinf (Default)  917 Reinf Top B  918 Reinforcement Top Layer  918 Reinforcement Top Layer	904	Bar Chart B	Rebar Bar Chart Graphics
907 Undefined Undefined level 908 Undefined Undefined level 909 Bentley Source Bentley Supplied Content 910 Sheet Format Bo er Contents(Includes North Arrow) 911 Hatching Various Patterns 912 Dimensions Dim Lines & Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	905	Bar Chart C	Rebar Bar Chart Content
908 Undefined Undefined level 909 Bentley Source Bentley Supplied Content 910 Sheet Format Bo er Contents(Includes North Arrow) 911 Hatching Various Patterns 912 Dimensions Dim Lines &Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	906	Bar Chart D	Rebar Bar Chart Content
909 Bentley Source Bentley Supplied Content 910 Sheet Format Bo er Contents(Includes North Arrow) 911 Hatching Various Patterns 912 Dimensions Dim Lines & Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	907	Undefined	Undefined level
910 Sheet Format Bo er Contents(Includes North Arrow) 911 Hatching Various Patterns 912 Dimensions Dim Lines & Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	908	Undefined	Undefined level
911 Hatching Various Patterns 912 Dimensions Dim Lines &Arrows 913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	909	Bentley Source	Bentley Supplied Content
912 Dimensions  913 Warnings  914 Text  Notes Leaders & Arrows  915 Reinf (Default)  916 Reinf Top A  Reinforcement Top Layer  917 Reinf Top B  Reinforcement Top Layer  918 Reinf Top C  Reinforcement Top Layer	910	Sheet Format	Bo er Contents(Includes North Arrow)
913 Warnings Warning Messages 914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	911	Hatching	Various Patterns
914 Text Notes Leaders & Arrows 915 Reinf (Default) Reinforcement (Default) 916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	912	Dimensions	
915 Reinf (Default)  916 Reinf Top A  Reinforcement Top Layer  917 Reinf Top B  Reinforcement Top Layer  918 Reinf Top C  Reinforcement Top Layer	913	Warnings	Warning Messages
916 Reinf Top A Reinforcement Top Layer 917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	914	Text	Notes Leaders & Arrows
917 Reinf Top B Reinforcement Top Layer 918 Reinf Top C Reinforcement Top Layer	915	Reinf (Default)	Reinforcement (Default)
918 Reinf Top C Reinforcement Top Layer	916	Reinf Top A	Reinforcement Top Layer
<del>-                                    </del>	917	Reinf Top B	Reinforcement Top Layer
919 Reinf Top D Reinforcement Top Layer	918	Reinf Top C	Reinforcement Top Layer
	919	Reinf Top D	Reinforcement Top Layer



020	Dainf Ton C	Dainforcement Ten Laver
920	Reinf Top E	Reinforcement Top Layer
921	Reinf Top F	Reinforcement Top Layer
922	Reinf Top G	Reinforcement Top Layer
923	Reinf Top H	Reinforcement Top Layer
924	Reinf Top I	Reinforcement Top Layer
925	Reinf Top J	Reinforcement Top Layer
926	Reinf Top K	Reinforcement Top Layer
927	Reinf Top L	Reinforcement Top Layer
928	Reinf Bot A	Reinforcement Bot Layer
929	Reinf Bot B	Reinforcement Bot Layer
930	Reinf Bot C	Reinforcement Bot Layer
931	Reinf Bot D	Reinforcement Bot Layer
932	Reinf Bot E	Reinforcement Bot Layer
933	Reinf Bot F	Reinforcement Bot Layer
934	Reinf Bot G	Reinforcement Bot Layer
935	Reinf Bot H	Reinforcement Bot Layer
936	Reinf Bot I	Reinforcement Bot Layer
937	Reinf Bot J	Reinforcement Bot Layer
938	Reinf Bot K	Reinforcement Bot Layer
939	Reinf Bot L	Reinforcement Bot Layer
940	Concrete Face A	Plans Sections Elevations
941	Concrete Face B	Plans Sections Elevations
942	Concrete Face C	Plans Sections Elevations
943	Concrete Face D	Plans Sections Elevations
944	Concrete Face E	Plans Sections Elevations
945	Concrete Face F	Plans Sections Elevations
946	Concrete Face G	Plans Sections Elevations
947	Concrete Face H	Plans Sections Elevations
948	Concrete Face I	Plans Sections Elevations
949	Concrete Face J	Plans Sections Elevations
950	Concrete Face K	Plans Sections Elevations
951	Concrete Face L	Plans Sections Elevations
952	Concrete Face M	Plans Sections Elevations
953	Concrete Face N	Plans Sections Elevations
954	Concrete Face O	Plans Sections Elevations
955	Concrete Face P	Plans Sections Elevations
956	Tendons A	Strands Ducts Anchorages
957	Tendons B	Strands Ducts Anchorages
958	Tendons C	Strands Ducts Anchorages
959	Structural Steel A	Plates Angles Shapes Tubes
960	Structural Steel B	Plates Angles Shapes Tubes
961	Structural Steel C	Plates Angles Shapes Tubes



962	Devices A	Bearings Anchorages Restrainers
963	Devices B	Bearings Anchorages Restrainers
964	Reserved A	Reserved A
965	Reserved B	Reserved B
966	Stage 4	Stage 4 Const &Temp Traffic
967	Stage 4 Anno	Stage 4 Const & Temp Traffic Anno
968	Stage 5	Stage 5 Const &Temp Traffic
969	Stage 5 Anno	Stage 5 Const &Temp Traffic Anno
970	Stage 6	Stage 6 Const &Temp Traffic
971	Stage 6 Anno	Stage 6 Const &Temp Traffic Anno
972	Stage 7	Stage 7 Const &Temp Traffic
973	Stage 7 Anno	Stage 7 Const &Temp Traffic Anno
974	Stage 8	Stage 8 Const &Temp Traffic
975	Stage 8 Anno	Stage 8 Const &Temp Traffic Anno
976	Stage 9	Stage 9 Const &Temp Traffic
977	Stage 9 Anno	Stage 9 Const &Temp Traffic Anno
978	Stage 10	Stage 10 Const &Temp Traffic
979	Stage 10 Anno	Stage 10 Const &Temp Traffic Anno
980	Stage 11	Stage 11 Const &Temp Traffic
981	Stage 11 Anno	Stage 11 Const &Temp Traffic Anno
982	Stage 12	Stage 12 Const &Temp Traffic
983	Stage 12 Anno	Stage 12 Const &Temp Traffic Anno
984	Stage 13	Stage 13 Const &Temp Traffic
985	Stage 13 Anno	Stage 13 Const &Temp Traffic Anno
986	Stage 14	Stage 14 Const &Temp Traffic
987	Stage 14 Anno	Stage 14 Const &Temp Traffic Anno
988	Stage 15	Stage 15 Const &Temp Traffic
989	Stage 15 Anno	Stage 15 Const &Temp Traffic Anno
990	Stage 16	Stage 16 Const &Temp Traffic
991	Stage 16 Anno	Stage 16 Const &Temp Traffic Anno
992	Stage 17	Stage 17 Const &Temp Traffic
993	Stage 17 Anno	Stage 17 Const &Temp Traffic Anno
994	Stage 18	Stage 18 Const &Temp Traffic
995	Stage 18 Anno	Stage 18 Const &Temp Traffic Anno
996	Stage 19	Stage 19 Const &Temp Traffic
997	Stage 19 Anno	Stage 19 Const & Temp Traffic Anno
998	Stage 20	Stage 20 Const &Temp Traffic
999	Stage 20 Anno	Stage 20 Const & Temp Traffic Anno
1000	TT Undefined	Open
1001	TT Control	(Includes Survey Monuments)
1002	TT Dropout	Open
1003	TT Dropout	Open



4004	TT Day of	0
1004	TT Dropout	Open
1005	TT Dropout	Open
1006	TT Dropout	Open
1007	TT Dropout	Open
1008	TT Dropout	Open
1009	TT-PROF-GRID	Track Profile Grid
1010	TT Sheet Format	(Includes North Arrow)
1011	TT Undefined	Open
1012	TT-GENR-DIMS	Leaders and Dim Lines
1013	TT-GENR-MISC-TEXT	Miscellaneous Text
1014	TT-GENR-STND-TEXT	Standard Text
1015	TT-GENR-TITL-TEXT	Title Text
1016	TT-GENR-NPLT-TEXT	Non-plotting Text
1017	TT-ALGN-NRTH-LINE	Main Northbound Alignment Data
1018	TT-ALGN-NRTH- ANNO	Main Northbound Alignment Annotation
1019	TT-ALGN-SOUT-LINE	Main Southbound Alignment Data
1020	TT-ALGN-SOUT-ANNO	Main Southbound Alignment Annotation
1021	TT-ALGN-SPUR-LINE	Spur Alignment Data
1022	TT-ALGN-SPUR-ANNO	Spur Alignment Annotation
1023	TT-RAIL-XOVR-LINE	Railroad Crossovers
1024	TT-RAIL-XOVR-ANNO	Railroad Crossovers Annotation
1025	TT-PROF-FGLT	Track Profile Finish Grade Offset Left
1026	TT-PROF-FGRT	Track Profile Finish Grade Offset Right
1027	TT-PROF-EGCL	Track Profile Existing Ground Centerline
1028	TT-PROF-EGCL-ANNO	Track Profile Existing Ground Centerline Text
1029	TT-PROF-EGLT	Track Profile Existing Ground Offset Left
1030	TT-PROF-EGLT-ANNO	Track Profile Existing Ground Left Station Text
1031	TT-PROF-EGRT	Track Profile Existing Ground Offset Right
1032	TT-PROF-EGRT-ANNO	Track Profile Existing Ground Right Station Text
1033	TT-PROF-FGCL	Track Profile Finish Grade Centerline
1034	TT-PROF-FGCL-ANNO	Track Profile Finish Grade Centerline Text
1035	TT-ALGN-STEQ-LABL	Track Station Equations
1036	TT-ALGN-STPT-LABL	Track Station Points
1037	TT EX RR ALIGNMENTS	Ex Freight & Commuter Rail Alignments
1038	TT REALIGNMENT OF EX RR	New Alignments for Ex RR
1039	TT REALIGNMENT OF EX RR ANNO	New Alignments for Ex RR ANNOTATION
1040	TT-RAIL-TIES	TIES FOR HST
1041	TT-RAIL-SWTH	HST SWITCHES
1042	TT RR Ha ware	RR Ha ware
1043	TT Undefined	Undefined level
1044	TT Undefined	Undefined level
1045	TT Undefined	Undefined level
1073	Shacinica	Office interest



1046	TT Undefined	Undefined level
1047	TT Undefined	Undefined level
1048	TT Undefined	Undefined level
1049	TT Undefined	Undefined level
1050	TT Undefined	Undefined level
1051	TT Undefined	Undefined level
1052	TT Undefined	Undefined level
1053	TT Undefined	Undefined level
1054	TT Undefined	Undefined level
1055	TT Undefined	Undefined level
1056	TT Undefined	Undefined level
1057	TT Undefined	Undefined level
1058	TT Undefined	Undefined level
1059	TT Undefined	Undefined level
1060	TT Nongeo Data	Nongeographical Drawing Data
1061	TT Undefined	Undefined level
1062	TT Undefined	Undefined level
1063	TT Undefined	Undefined level
1064	TT Undefined	Undefined level
1065	TT Undefined	Undefined level
1066	TT Undefined	Undefined level
1067	TT Undefined	Undefined level
1068	TT Undefined	Undefined level
1069	TT Undefined	Undefined level
1070	TT Undefined	Undefined level
1071	TT Undefined	Undefined level
1072	TT Undefined	Undefined level
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1080	TT Undefined	Undefined level
1081	TT Undefined	Undefined level
1082	TT Undefined	Undefined level
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1088	TT Undefined	Undefined level
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1095	TT Undefined	Undefined level
1096	TT Undefined	Undefined level
1097	TT Undefined	Undefined level
1098	TT Undefined	Undefined level
1099	TT Undefined	Undefined level
1100	TT Undefined	Undefined level
1101	TP Control	(Includes Survey Monuments)
1102	TP Dropout	Dropout
1103	TP Dropout	Dropout
1104	TP Dropout	Dropout
1105	TP Dropout	Dropout
1106	TP Dropout	Dropout
1107	TP Dropout	Dropout
1108	TP Dropout	Dropout
1109	TP Dropout	RR Profile Grid
1110	TP Sheet	(Includes North Arrow)
1111	TP Undefined	Open
1112	TP Dimensions	Text wt & color set to bylevel
1113	TP GEN SUBTITLE	Text-General Subtitle
1114	TP GEN NOTE	text for general notes - legends - misc. info
1115	TP GEN TITLE	text for general notes - titles
1116	TP FEAT-MISC	miscellaneous
1117	TP CENTER LINE	Center Line
1118	TP DETAIL-CENTER-LINESO	Center Lines Details Weight 0
1119	TP DETAIL-HIDDEN-LINESO	Hidden Lines Details Weight 0
1120	TP DETAIL-OBJECT-LINESO	Object Lines For Details Weight 0
1121	TP DETAIL-OBJECT-LINES1	Object Lines For Details Weight 1
1122	TP DETAIL-OBJECT-LINES2	Object Lines For Details Weight 2
1123	TP DETAIL-OBJECT-LINES3	Object Lines For Details Weight 3
1124	TP DIMENSION LINE	Dimension Line
1125	TP EXISTING HIDDEN LINE	Existing Hidden Line
1126	TP EXISTING LINE	Existing Line
1127	TP PATTERN LINE	Pattern Line
1128	TP PRIMARY TABLE LINE	Primary Table Line
1129	TP PROPOSED HIDDEN LINE	Proposed Hidden Line



1130	TP PROPOSED LINE	Proposed Line
1130	TP SECONDARY TABLE LINE	† · ·
1131	TP SWITCH	Secondary Table Line
1133	TP 20 DUCT UG	Rail - Traction Power - 20""" Duct Bank
1134	TP 24 DUCT UG	Rail - Traction Power - 24""" Duct Bank
1134	TP 32 DUCT UG	Rail - Traction Power - 32""" Duct Bank
1136	TP 40 DUCT UG	Rail - Traction Power - 40""" Duct Bank
1137	TP EQUIP	Rail- Traction Power - 480V PO & Control Sta
1137	TP HANDHOLE	Rail - Traction Power - Handhole
1139	TP LINE OH	Rail - Traction Power - O/H Line
1139	TP MANHOLE	Rail - Traction Power - Manhole
1140	TP SS	Rail - Traction Power - Substation
1141	TP SWS	
1142	TP PS	Rail - Traction Power - Switching Station
1143	TP TRANSFORMER	Rail - Traction Power - Paralleling Station TP TRANSFORMER
1144	TP AUTOTRANSFORMER	TP AUTOTRANSFORMER
1146	TP AUXILIARY TRANSFORMER	TP AUXILIARY TRANSFORMER
1147	TP CONTROL ROOM	TP CONTROL ROOM
1148	TP SWITCHGEAR	TP SWITCHGEAR
1149	TP CIDCUIT PREAMER	TP ENCLOSURE
1150	TP CIRCUIT BREAKER	TP CIRCUIT BREAKER
1151	TP DISCONNECT SWITCH	TP DISCONNECT SWITCH
1152	TP RELAY	TP RELAY
1153	TP RELAY LINE	TP RELAY LINE
1154	TP CONNECTION	TP CONNECTION
1155	TP POWER LINE	TP POWER LINE
1156	TP INSULATOR	TP INSULATOR
1157	TP NEUTRAL RETURN	TP NEUTRAL RETURN
1158	TP POSITIVE FEEDER	TP POSITIVE FEEDER
1159	TP NEGATIVE FEEDER	TP NEGATIVE FEEDER
1160	TP BUS	TP BUS
1161	TP CATENARY	TP CATENARY
1162	TP TRACK	TP TRACK
1163	TP WALL	TP WALL
1164	TP SYMBOLS	TP SYMBOLS
1165	TP FENCE	TP FENCE
1166	TP GROUNDING	TP GROUNDING
1167	TP PLATFORM	TP PLATFORM
1168	TP DOOR	TP DOOR
1169	TP STRUCTURE	TP STRUCTURE
1170	TP FIREWALL	TP FIREWALL
1171	TP SCADA INTERFACE PANEL	TP SCADA INTERFACE PANEL



1172	ТР НАТСН	ТР НАТСН
1173	TP RESERVED SPASE	TP RESERVED SPASE
1174	TP CAHSR LINE	TP CAHSR LINE
1175	TP CAHSR CP	TP CAHSR CP
1176	TP CALTRAIN LINE	TP CALTRAIN LINE
1177	TP CALTRAIN CP	TP CALTRAIN CP
1178	TP CALTRAIN TEXT	TP CALTRAIN TEXT
1179	TP RAILROAD	TP RAILROAD
1180	TP CATENARY	TP CATENARY
1181	TP GANTRY	TP GANTRY
1182	TP CONDUIT	TP CONDUIT
1183	TP CONDUIT UNDERGROUND	TP CONDUIT UNDERGROUND
1184	TP SECTION	TP SECTION
1185	TP ROAD	TP ROAD
1186	TP ARST	TP ARST
1187	TP BUSBAR	TP BUSBAR
1188	TP CABLE	TP CABLE
1189	TP INSULATOR	TP INSULATOR
1190	TP WIRE	TP WIRE
1191	TP MOTOR SWITCH	TP MOTOR SWITCH
1192	TP TERMINATION	TP TERMINATION
1193	TP GROUND GRID	TP GROUND GRID
1194	TP GANTRY TRANSFORMER	TP GANTRY TRANSFORMER
1195	TP CLAMP	TP CLAMP
1196	TP CONCRETE	TP CONCRETE
1197	TP GRADE	TP GRADE
1198	TP Undefined	Open
1199	TP Undefined	Open
1200	OC Undefined	Open
1201	OC Control	(Includes Survey Monuments)
1202	OC Dropout	Open
1203	OC Dropout	Open
1204	OC Dropout	Open
1205	OC Dropout	Open
1206	OC Dropout	Open
1207	OC Dropout	Open
1208	OC Dropout	Open
1209	OC Dropout	Open
1210	OC Sheet Format	(Includes North Arrow)
1211	OC Line works	All line work
1212	OC Dimension	Dimension Line
1213	OC Centerline	Center Line



1214 OC Hiddenline Hidden Line  1215 OC Matchline Match Line  1216 OC Misc Line Misc. line  1217 OC Undefined Undefined level  1218 OC Undefined Undefined level  1219 OC Revision Cloud Revision Cloud line  1220 OC Undefined Open  1221 OC Standard Text Standard and Notes Text  1222 OC Detail Title Text Detail and Section Title Text  1223 OC Matchline Text Match Line Text  1224 OC Border Text Text for the Border  1225 OC Revision Text Text for the revision block  1226 OC Undefined Undefined level  1227 OC Undefined Undefined level  1228 OC Undefined Undefined level  1229 OC Undefined Undefined level  1230 OC Undefined Undefined level
1216 OC Misc Line 1217 OC Undefined Undefined level 1218 OC Undefined Undefined level 1219 OC Revision Cloud Revision Cloud line 1220 OC Undefined Open 1221 OC Standard Text Standard and Notes Text 1222 OC Detail Title Text Detail and Section Title Text 1223 OC Matchline Text Match Line Text 1224 OC Border Text Text for the Border 1225 OC Revision Text Text for the revision block 1226 OC Undefined Undefined level 1227 OC Undefined Undefined level 1228 OC Undefined Undefined level 1229 OC Undefined Undefined level
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1221 OC Standard Text Standard and Notes Text  1222 OC Detail Title Text Detail and Section Title Text  1223 OC Matchline Text Match Line Text  1224 OC Border Text Text for the Border  1225 OC Revision Text Text for the revision block  1226 OC Undefined Undefined level  1227 OC Undefined Undefined level  1228 OC Undefined Undefined level  1229 OC Undefined Undefined level
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1225 OC Revision Text Text for the revision block 1226 OC Undefined Undefined level 1227 OC Undefined Undefined level 1228 OC Undefined Undefined level 1229 OC Undefined Undefined level
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1267	OC Undefined	Undefined level
1268	OC Undefined	Undefined level
1269	OC Undefined	Undefined level
1270	OC Undefined	Undefined level
1271	OC Undefined	Undefined level
1272	OC Undefined	Undefined level
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1279	OC Undefined	Undefined level
1280	OC Undefined	Undefined level
1281	OC Undefined	Undefined level
1282	OC Undefined	Undefined level
1283	OC Undefined	Undefined level
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1307	TC Undefined	Undefined level
1308	TC Undefined	Undefined level
1309	TC Undefined	Undefined level
1310	TC Match Line Text	Match Line Text
1311	TC Sig-E qpm	Signal Equipment
1312	TC Sig-E qpm-Conn	Signal Equipment Connection
1313	TC Sig-E qpm-Text	Signal Equipment Text
1314	TC Undefined	Undefined level
1315	TC Undefined	Undefined level
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1317	TC Undefined	Undefined level
1318	TC Undefined	Undefined level
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1321	TC Undefined	Undefined level
1322	TC Undefined	Undefined level
1323	TC Undefined	Undefined level
1324	TC Undefined	Undefined level
1325	TC Undefined	Undefined level
1326	TC Undefined	Undefined level
1327	TC Undefined	Undefined level
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1365 TC Undefined Undefined level 1366 TC Undefined Undefined level 1367 TC Undefined Undefined level 1368 TC Undefined Undefined level 1369 TC Undefined Undefined level	1363	TC Undefined	Undefined level
1366 TC Undefined Undefined level 1367 TC Undefined Undefined level 1368 TC Undefined Undefined level 1369 TC Undefined Undefined level	1364	TC Undefined	Undefined level
1367 TC Undefined Undefined level 1368 TC Undefined Undefined level 1369 TC Undefined Undefined level	1365	TC Undefined	Undefined level
1368 TC Undefined Undefined level 1369 TC Undefined Undefined level	1366	TC Undefined	Undefined level
1369 TC Undefined Undefined level	1367	TC Undefined	Undefined level
	1368	TC Undefined	Undefined level
1370 TC Undefined	1369	TC Undefined	Undefined level
1370 To Office interest of Office interest in the Interest in	1370	TC Undefined	Undefined level
1371 TC Undefined Undefined level	1371	TC Undefined	Undefined level
1372 TC Undefined Undefined level	1372	TC Undefined	Undefined level
1373 TC Undefined Undefined level	1373	TC Undefined	Undefined level
1374 TC Undefined Undefined level	1374	TC Undefined	Undefined level
1375 TC Undefined Undefined level	1375	TC Undefined	Undefined level
1376 TC Undefined Undefined level	1376	TC Undefined	Undefined level
1377 TC Undefined Undefined level	1377	TC Undefined	Undefined level
1378 TC Undefined Undefined level	1378	TC Undefined	Undefined level
1379 TC Undefined Undefined level	1379	TC Undefined	Undefined level
1380 TC Undefined Undefined level	1380	TC Undefined	Undefined level
1381 TC Undefined Undefined level	1381	TC Undefined	Undefined level



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1406 CO Undefined Undefined level	
1407 CO Undefined Undefined level	
1408 CO Undefined Undefined level	
1409 CO Undefined Undefined level	
1410 CO Match Line Txt Match Line Text	
1411 CO Eqpm Communication Equipment	
1412 CO Eqpm-Conn Communication Equipment Connection	
1413 CO Eqpm-Txt Communication Equipment Text	
1414 CO Undefined Undefined level	
1415 CO Undefined Undefined level	
1416 CO Undefined Undefined level	
1417 CO Undefined Undefined level	
1418 CO Undefined Undefined level	
1419 CO Undefined Undefined level	
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1421 CO Undefined Undefined level	
1422 CO Undefined Undefined level	
1423 CO Undefined Undefined level	



1424 CO Undefined 1425 CO Undefined	Undefined level
1/25 CO Undofined	
1423 CO Officeriffed	Undefined level
1426 CO Undefined	Undefined level
1427 CO Undefined	Undefined level
1428 CO Undefined	Undefined level
1429 CO Undefined	Undefined level
1430 CO Undefined	Undefined level
1431 CO Undefined	Undefined level
1432 CO Undefined	Undefined level
1433 CO Undefined	Undefined level
1434 CO Undefined	Undefined level
1435 CO Undefined	Undefined level
1436 CO Undefined	Undefined level
1437 CO Undefined	Undefined level
1438 CO Undefined	Undefined level
1439 CO Undefined	Undefined level
1440 CO Undefined	Undefined level
1441 CO Undefined	Undefined level
1442 CO Undefined	Undefined level
1443 CO Undefined	Undefined level
1444 CO Undefined	Undefined level
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1446 CO Undefined	Undefined level
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1448 CO Undefined	Undefined level
1449 CO Undefined	Undefined level
1450 CO Undefined	Undefined level
1451 CO Undefined	Undefined level
1452 CO Undefined	Undefined level
1453 CO Undefined	Undefined level
1454 CO Undefined	Undefined level
1455 CO Undefined	Undefined level
1456 CO Undefined	Undefined level
1457 CO Undefined	Undefined level
1458 CO Undefined	Undefined level
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1466	CO Undefined	Undefined level
1467	CO Undefined	Undefined level
1468	CO Undefined	Undefined level
1469	CO Undefined	Undefined level
1470	CO Undefined	Undefined level
1471	CO Undefined	Undefined level
1472	CO Undefined	Undefined level
1473	CO Undefined	Undefined level
1474	CO Undefined	Undefined level
1475	CO Undefined	Undefined level
1476	CO Undefined	Undefined level
1477	CO Undefined	Undefined level
1478	CO Undefined	Undefined level
1479	CO Undefined	Undefined level
1480	CO Undefined	Undefined level
1481	CO Undefined	Undefined level
1482	CO Undefined	Undefined level
1483	CO Undefined	Undefined level
1484	CO Undefined	Undefined level
1485	CO Undefined	Undefined level
1486	CO Undefined	Undefined level
1487	CO Undefined	Undefined level
1488	CO Undefined	Undefined level
1489	CO Undefined	Undefined level
1490	CO Undefined	Undefined level
1491	CO Undefined	Undefined level
1492	CO Undefined	Undefined level
1493	CO Undefined	Undefined level
1494	CO Undefined	Undefined level
1495	CO Undefined	Undefined level
1496	CO Undefined	Undefined level
1497	CO Undefined	Undefined level
1498	CO Undefined	Undefined level
1499	CO Undefined	Undefined level
1500	GT Undefined	Undefined level
1501	GT Undefined	Undefined level
1502	GT Undefined	Undefined level
1503	GT Undefined	Undefined level
1504	GT Undefined	Undefined level
1505	GT Undefined	Undefined level
1506	GT Undefined	Undefined level
1507	GT Undefined	Undefined level
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1508	GT Undefined	Undefined level	
1509	GT Undefined	Undefined level	
1510	GT Notes	Geotech General Notes	
1511	GT Dimensions	Geotech Dimension	
1512	GT Text	Geotech Text	
1513	GT Symbols	Geotech Symbols	
1514	GT Legend	Geotech Legend	
1515	GT Pattern	Geotech Patterning	
1516	GT Shape	Geotech Shapes	
1517	GT Undefined	Undefined level	
1518	GT Undefined	Undefined level	
1519	GT Undefined	Undefined level	
1520	GT Undefined	Undefined level	
1521	GT Existing Boreholes	GT Existing Boreholes	
1522	GT CHSR PL Proposed Boreholes	GT CHSR PL Proposed Boreholes	
1523	GT CHSR PL Proposed Boreholes	GT CHSR PL Proposed Boreholes	
1524	GT CHSR PL Proposed Boreholes	GT CHSR PL Proposed Boreholes	
1525	GT CHSR PL Proposed Boreholes	GT CHSR PL Proposed Boreholes	
1526	GT Undefined	Undefined level	
1527	GT Undefined	Undefined level	
1528	GT Undefined	Undefined level	
1529	GT Geothermal Fields	GT Geothermal Fields	
1530	GT Undefined	Undefined level	
1531	GT Groundwater Contours	GT Groundwater Contours	
1532	GT Water Wells	GT Water Wells	
1533	GT Landslide Points	GT Landslide Points	
1534	GT Undefined	Undefined level	
1535	GT Undefined	Undefined level	
1536	GT Landslides	GT Landslides	
1537	GT Dam Inundation Z ones	GT Dam Inundation Z ones	
1538	GT Undefined	Undefined level	
1539	GT Hot Springs	GT Hot Springs	
1540	GT Liquefaction Zones	GT Liquefaction Zones	
1541	GT Methane Fields	GT Methane Fields	
1542	GT Undefined	Undefined level	
1548	GT Undefined	Undefined level	
1544	GT Oil and Gas Fields (DOGGER)	GT Oil and Gas Fields (DOGGER)	
1545	GT Wells	Operator, type, etc	
1549	GT Shearwave Velocity	VS Category	
1550	GT Alquist fault Zones	GT Alquist fault Zones	
1551	GT Fault Haza Zones	Zone; Primary	
1552	GT Faults	Туре	



1552	CT Faults	Agoutuno
1553	GT Faults	Age; type
1554	GT Hard Const	Same as USGS_FAULT
1555	GT Undefined	Undefined level
1556	GT Undefined	Undefined level
1557	GT Undefined	Undefined level
1558	GT Boring Stick Existing	GT Boring Stick Existing
1559	GT Boring Stick Proposed	GT Boring Stick Proposed
1560	GT Undefined	Undefined level
1561	GT Undefined	Undefined level
1562	GT Undefined	Undefined level
1563	GT Undefined	Undefined level
1564	GT Undefined	Undefined level
1565	GT Undefined	Undefined level
1566	GT Undefined	Undefined level
1567	GT Undefined	Undefined level
1568	GT Undefined	Undefined level
1569	GT Undefined	Undefined level
1570	GT Undefined	Undefined level
1571	GT Undefined	Undefined level
1572	GT Undefined	Undefined level
1573	GT Undefined	Undefined level
1574	GT Undefined	Undefined level
1575	GT Undefined	Undefined level
1576	GT Undefined	Undefined level
1577	GT Undefined	Undefined level
1578	GT Undefined	Undefined level
1579	GT Undefined	Undefined level
1580	GT Undefined	Undefined level
1581	GT Undefined	Undefined level
1582	GT Undefined	Undefined level
1583	GT Undefined	Undefined level
1584	GT Undefined	Undefined level
1585	GT Undefined	Undefined level
1586	GT Undefined	Undefined level
1587	GT Undefined	Undefined level
1588	GT Undefined	Undefined level
1589	GT Undefined	Undefined level
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1591	GT Undefined	Undefined level
1592	GT Undefined	Undefined level
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1594	GT Undefined	Undefined level



1595	GT Undefined	Undefined level
1596	GT Undefined	Undefined level
1597	GT Undefined	Undefined level
1598	GT Undefined	Undefined level
1599	GT Undefined	Undefined level
1600	MY Undefined	Undefined level
1601	MY Undefined	Undefined level
1602	MY Undefined	Undefined level
1603	MY Undefined	Undefined level
1604	MY Undefined	Undefined level
1605	MY Undefined	Undefined level
1606	MY Undefined	Undefined level
1607	MY Undefined	Undefined level
1608	MY Undefined	Undefined level
1609	MY Undefined	Undefined level
1610	MY Undefined	Undefined level
1611	MY Undefined	Undefined level
1612	MY Undefined	Undefined level
1613	MY Undefined	Undefined level
1614	MY Undefined	Undefined level
1615	MY Undefined	Undefined level
1616	MY Undefined	Undefined level
1617	MY Undefined	Undefined level
1618	MY Undefined	Undefined level
1619	MY Undefined	Undefined level
1620	MY Undefined	Undefined level
1621	MY Undefined	Undefined level
1622	MY Undefined	Undefined level
1623	MY Undefined	Undefined level
1624	MY Undefined	Undefined level
1625	MY Undefined	Undefined level
1626	MY Undefined	Undefined level
1627	MY Undefined	Undefined level
1628	MY Undefined	Undefined level
1629	MY Undefined	Undefined level
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1631	MY Undefined	Undefined level
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1637	MY Undefined	Undefined level
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1644	MY Undefined	Undefined level
1645	MY Undefined	Undefined level
1646	MY Undefined	Undefined level
1647	MY Undefined	Undefined level
1648	MY Undefined	Undefined level
1649	MY Undefined	Undefined level
1650	MY Undefined	Undefined level
1651	MY Undefined	Undefined level
1652	MY Undefined	Undefined level
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1657	MY Undefined	Undefined level
1658	MY Undefined	Undefined level
1659	MY Undefined	Undefined level
1660	MY Undefined	Undefined level
1661	MY Undefined	Undefined level
1662	MY Undefined	Undefined level
1663	MY Undefined	Undefined level
1664	MY Undefined	Undefined level
1665	MY Undefined	Undefined level
1666	MY Undefined	Undefined level
1667	MY Undefined	Undefined level
1668	MY Undefined	Undefined level
1669	MY Undefined	Undefined level
1670	MY Undefined	Undefined level
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1679	MY Undefined	Undefined level
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1686	MY Undefined	Undefined level
1687	MY Undefined	Undefined level
1688	MY Undefined	Undefined level
1689	MY Undefined	Undefined level
1690	MY Undefined	Undefined level
1691	MY Undefined	Undefined level
1692	MY Undefined	Undefined level
1693	MY Undefined	Undefined level
1694	MY Undefined	Undefined level
1695	MY Undefined	Undefined level
1696	MY Undefined	Undefined level
1697	MY Undefined	Undefined level
1698	MY Undefined	Undefined level
1699	MY Undefined	Undefined level



## APPENDIX G - LINESTYLE RESOURCE FILE

PROJECT PLANS (100S)-DASHED LINES		
NAME	DESCRIPTION	IMAGE
PP-AXIS	SUPER AXIS OF ROTATION	
PP-CITY	CITY OWNER LINE	
PP-CLDET	DETAIL CENTER LINE	
PP-COUNTY	COUNTY OWNER LINE	
PP-DOTO	DOTTED LINE	
PP-FOREST	FOREST BOUNDARY	
PP-LC1	DOTTED LINE	
PP-LC2	MEDIUM DASH	
PP-LC3	LONG DASH	
PP-LC4	DASH-DOT	
PP-LC5	SHORT DASH	
PP-LC6	DASH-DOT-DOT	
PP-LC7	LONG DASH-SHORT DASH	
PP-LDASH	LONG DASH	
PP-MATCH	MATCH LINE	
PP-MDASH	MEDIUM DASH	
PP-SDASH	SHORT DASH	
PP-STATE	STATE BOUNDARY	

LANDSCAPE (200S)		
NAME	DESCRIPTION	IMAGE
IS-CNC-P	CONTROL AND NEUTRAL CONDUCTOR	
IS-CNC-X	CONTROL AND NEUTRAL CONDUCTOR (EXISTING)	پېرې د د د د د د د د د د د د د د د د د د
IS-COND-P	CONDUIT	
IS-COND-X	CONDUIT (EXISTING)	
IS-DIP-P	DUCTILE IRON PIPE	—DIP
IS-DIP-X	DUCTILE IRON PIPE (EXISTING)	dipdip
IS-GC1	GROUND COVER	-artiron-environ-artiron-
IS-GSP-P	GALV STEEL PIPE	
IS-GSP-X	GALV STEEL PIPE (EXISTING)	
IS-PP-X	PLASTIC PIPE (EXISTING)	



	LANDSCAPE (200S)	
NAME	DESCRIPTION	IMAGE
IS-PPIL-P	PLASTIC PIPE IRRIGATION	
IS-PPIL-X	PLASTIC PIPE IRRIGATION (EXISTING)	
1S-S10A	ARC ANGLE SHRUB 3 M WIDE	manamahanan
IS-S1OAF	ARC ANGLE SHRUB 3 M WIDE	harden de la companya
1S-S10B	CLOUD SHRUB 1 SIDE	
IS-S10BF	CLOUD SHRUB 3 M WIDE	
1S-S10C	ROUND SHRUB 3 M CTRS 1SD	~~~~~
15-510CF	ROUND SHRUB 3 M CTRS 2SD	~~~~~
IS-S15A	SQUARE SHRUB 2 M CTRS 1 SD	******
1S-S15AF	SQUARE SHRUB 2 M CTRS 2 SD	
IS-S15B	ROUND SHRUB 4.5 M CTRS 1SD	
IS-S15BF	ROUND SHRUB 4.5 M CTRS 2SD	
IS-S15C	CASTLE SHRUB 1 SIDE	~~~~~
IS-S15CF	CASTLE SHRUB 3 M WIDE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1S-S20A	ROUND SHRUB 6 M CTR 1SD	
IS-S20AF	ROUND SHRUB 6 M CTR 2SD	~~~~~
1S-S20B	CLOUD SHRUB 1 SIDE	· · · · · · · · · · · · · · · · · · ·
1S-S20BF	CLOUD SHRUB 3 M WIDE	
1S-S6A	ROUND SHRUB 1.5 M CTRS 1SD	
IS-S6AF	ROUND SHRUB 2 M CTRS 2SD	
1S-S6B	SQUARE SHRUB 2 M CTRS 1SD	
1S-S6BF	SQUARE SHRUB 2 M CTRS 2SD	
IS-SCC-P	SPRINKLER CONTROL COND	-scc
IS-SCC-X	SPRINKLER CONTROL COND (EXISTING)	sccscc
IS-VINE1	VINE-OPEN	annonnannannanna
IS-VINE2	VINE-FULL	
IS-VINE3	VINE-OPEN WITH V	***************************************
IS-SLEEVE-P	IRRIGATION SLEEVE	
IS-SLEEVE-X	IRRIGATION SLEEVE (EXISTING)	<b>)-</b>



ROADWAY (400S)		
NAME	DESCRIPTION	IMAGE
RD-BARRIER	CONCRETE BARRIER	<del></del>
RD-CMP	CURRUGATED METAL PIPE	~~~~~
RD-CURB	CURB	
RD-CURBG	CURB AND GUTTER	
RD-DBLBAR	DOUBLE BEAM BARRIER	
RD-FENCE	FENCE	
RD-FLOWLN	DRAINAGE FLOW LINE	
RD-GRIND	GRIND PCC	
RD-MBGR-P	GUARD RAIL	
RD-MBGR-X	GUARD RAIL (EXISTING)	
RD-OG	ORIGINAL GROUND	74h 14h 14h 14h
RD-PIPEL-P	DRAIN LINE (1-2M)	
RD-PIPEL-X	DRAIN LINE (1-2M) (EXISTING)	:=========
RD-PLANING	PLANING	*****
RD-PLANRESF	RESURFACE/OBLITERATE	<u> / * / * / * /</u>
RD-RESURF	RESURFACE	111111
RD-WALLBAR	WALL TOP OF BARRIER	<b></b>
RD-WALL-P	WALL (NEW)	
RD-WALL-X	WALL (EXISTING)	
RD-LNSTRPDSH	LANE STRIPE-DASH	
RD-KRAIL	TEMPORARY K-RAIL	
RD-WATEREDGE	RIVER AND LAKE BOUNDARIES	
RD-STREAM	RIVERS AND CREEKS	
RD-WALLS	WALL ON WALL	
RD-LNSTRPDBL1	LANE STRIPING (SOLID/DASH)	
RD-LNSTRPDBL2	LANE STRIPING (DASH/SOLID)	
RD-LNSTRPDBL3	LANE STRIPING (DBL SOLID)	



RIGHT OF WAY (500S)		
NAME	DESCRIPTION	IMAGE
RW-CLIMIT	CITY LIMIT LINE	<del></del>
RW-CTRLN	CENTER LINE	
RW-SECTL	SECTION LINE	
RW-SUBDL	SUB DIVISION LINE	
RW-ARRDBL-NARO	DOUBLE ENDED NARROW ARROW WITH SOLID LINE	
RW-ARRDBL-NAR1	DOUBLE ENDED NARROW ARROW WITH DASHED LINE	
RW-ARRDBL-STDO	DOUBLE ENDED STANDARD ARROW WITH SOLID LINE	
RW-ARRDBL-STD1	DOUBLE ENDED STANDARD ARROW WITH DASHED LINE	
RW-ARR-NARO	NARROW ARROW WITH SOLID LINE	
RW-ARR-NAR1	NARROW ARROW WITH DASHED LINE	
RW-ARR-STD0	STANDARD ARROW WITH SOLID LINE	
RW-ARR-STD1	STANDARD ARROW WITH DASHED LINE	
RW-ARRSYM-NARO	NARROW ARROW TO SYMBOL WITH SOLID LINE	
RW-ARRSYM-NAR1	NARROW ARROW TO SYMBOL WITH DASHED LINE	
RW-ARRSYM-STDO	STANDARD ARROW TO SYMBOL WITH SOLID LINE	
RW-ARRSYM-STD1	STANDARD ARROW TO SYMBOL WITH DASHED LINE	
RW-DIMDBL	DOUBLE ENDED DIMENSION LEADER	
RW-DIMSINGLE	DIMENSION LEADER	•
RW-COLOREASE	PARCEL EASEMENT COLORING	
RW-COLORREMAIN	PARCEL REMAINDER UNDERLINE	
RW-DETAILUNDER	DETAIL ANNOTATION UNDERLINE	
RW-FREELEASE	FREEWAY LEASE AREA	••••••
RW-SUPPREF	UNASSIGNED REFERENCE AREA	344(344(344(344)))



	RIGHT OF WAY (500S)	
NAME	DESCRIPTION	IMAGE
RW-EASEEXIST	EXISTING EASEMENT	
RW-EASENEW	NEW EASEMENT	
RW-ACCESS-LT	R/W ACCESS PROHIBITED (L)	<u></u>
RW-ACCSU-LT	R/W ACCESS CONTROL (L)	
RW-ACCREL-LT	RELINQUISHED R/W ACCESS CONTROL (L)	711447114471
RW-ACCESS-RT	R/W ACCESS PROHIBITED (R)	<del></del>
RW-ACCSU-RT	R/W ACCESS CONTROL (R)	• + + +
RW-ACCREL-RT	RELINQUISHED R/W ACCESS CONTROL (R)	шеницени
RW-SUPERCEDED	SUPERCEDED R/W (CONVENTIONAL)	
RW-COMMON	COMMON PROPERTY LINE (SAME OWNER)	

UTILITIES (700S)		
NAME	DESCRIPTION	IMAGE
UT-ELEC-P	ELECTRICAL CONDUIT (UG)	E
UT-ELEC-X	ELECTRICAL CONDUIT (EXIST)	e
UT-GAS-P	GASOLINE CONDUIT	&
UT-GAS-X	GASOLINE CONDUIT (EXIST)	gs gs
UT-NATGAS-P	NATURAL GAS	-c
UT-NATGAS-X	NATURAL GAS (EXIST)	-g
UT-OIL-P	OIL LINE	0
UT-OIL-X	OIL LINE (EXIST)	
UT-SEWER-P	SEWER LINE	-ss
UT-SEWER-X	SEWER LINE (EXIST)	-8
UT-STEAM-P	STEAM UTILITY LINE	·-stst
UT-STEAM-X	STEAM UTILITY LINE (EXIST)	·-s+
UT-STORMD-P	STORM DRAIN LINE	·- SD
UT-STORMD-X	STORM DRAIN LINE (EXIST)	sd



UTILITIES (700S)		
NAME	DESCRIPTION	IMAGE
UT-TELECOM-P	TELMETER CABLE LINE	тс
UT-TELECOM-X	TELEMETER CABLE LINE (EXIST)	·t
UT-TELEPH-P	TELEPHONE LINE (UG)	·т
UT-TELEPH-X	TELEPHONE LINE (EXIST)	·t
UT-TV-P	TELEVISION LINE (UG)	·-т <b>үтү</b>
<b>υΤ-</b> Τ <b>V-</b> Χ	TELEVISION LINE (EXIST)	·tv
UT-WATER-P	WATER LINE	
UT-WATER-X	WATER LINE (EXIST)	—

WATER POLLUTION CONTROL-WPC-BMPS (800S)		
NAME	DESCRIPTION	IMAGE
SW-TFESA	TEMPORARY FENCE	TFESA -
SW-TSF	TEMPORARY SILT FENCE	_xxxxxx-
SW-TFR	TEMPORARY FIBER ROLL	***************************************
SW-TGBB	TEMPORARY GRAVEL BAG BARRIER	œ∞™æ
SW-TSBB	TEMPORARY STRAW BALE BARRIER	
SW-TSDFP	TEMPORARY SLOPE DRAIN FLEX PIPE	
SW-TEB	TEMPORARY EARTH BERM	ammamma
SW-TDS	TEMPORARY DITCH/SWALE	
SW-TLB1	TEMPORARY LINEAR BARRIER (TYPE 1)	• • • • • • • • • • • • • • • • • • • •
SW-TLB2	TEMPORARY LINEAR BARRIER (TYPE 2)	
SW-TLB3	TEMPORARY LINEAR BARRIER (TYPE 3)	00000
SW-FR	FIBER ROLL	············· FR ··········



## APPENDIX H - CALIFORNIA COORDINATE SYSTEM (CCS83)



